

**Inquiry Investigations™**  
**Chemistry - A Closer Look at Matter MODULE - 1287240**  
**Grades: 7-10**

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**Connecticut Curriculum Frameworks**  
**Science**  
**Grade 7**

DOMAIN / CONTENT STANDARD	CT.SI.	Scientific Inquiry: Scientific inquiry is a thoughtful and coordinated attempt to search out, describe, explain and predict natural phenomena. Scientific inquiry progresses through a continuous process of questioning, data collection, analysis and interpretation. Scientific inquiry requires the sharing of findings and ideas for critical review by colleagues and other scientists.
STATE FRAMEWORK	C.INQ.2.	<p>Read, interpret and examine the credibility of scientific claims in different sources of information.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity</li> </ul>

		<p>3: Production of a Salt - Neutralization Reaction</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	C.INQ.3.	<p>Design and conduct appropriate types of scientific investigations to answer different questions.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity</li> </ul>

		<p>1: Testing Properties of Acids, Bases, and Salts</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	C.INQ.5.	<p>Use appropriate tools and techniques to make observations and gather data.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity</li> </ul>

		<p>2: Writing a Description of a Chemical Reaction</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	C.INQ.7.	<p>Identify and present relationships between variables in appropriate graphs.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity</li> </ul>

		<p>1: Investigating Mixtures</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	C.INQ.8.	<p>Draw conclusions and identify sources of error.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> </ul>

		<ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	C.INQ.9.	<p>Provide explanations to investigated problems or questions.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity</li> </ul>

		<p>2: Exploring Changes in Matter</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	C.INQ.10.	<p>Communicate about science in different formats, using relevant science vocabulary, supporting evidence and clear logic.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity</li> </ul>

		<p>4: Chemical Structure of Soaps and Detergents</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
DOMAIN / CONTENT STANDARD	CT.SL.	Scientific Literacy: Scientific literacy includes speaking, listening, presenting, interpreting, reading and writing about science. Scientific literacy also includes the ability to search for and assess the relevance and credibility of scientific information found in various print and electronic media.
STATE FRAMEWORK	C.INQ.2.	<p>Read, interpret and examine the credibility of scientific claims in different sources of information.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity</li> </ul>

		<p>3: Forming Ionic Bonds</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	C.INQ.3.	<p>Design and conduct appropriate types of scientific investigations to answer different questions.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity</li> </ul>

		<p>1: Modeling Atoms and Ions</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE	C.INQ.5.	Use appropriate tools and techniques to make observations and gather

FRAMEWORK		<p>data.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown</li> </ul>
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		Concentration
STATE FRAMEWORK	C.INQ.7.	<p>Identify and present relationships between variables in appropriate graphs.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity</li> </ul>

		<p>1: Water Purification</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	C.INQ.8.	<p>Draw conclusions and identify sources of error.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> </ul>

		<ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	C.INQ.9.	<p>Provide explanations to investigated problems or questions.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity</li> </ul>

		<p>4: Observing a Biochemical Reaction</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	C.INQ.10.	<p>Communicate about science in different formats, using relevant science vocabulary, supporting evidence and clear logic.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity</li> </ul>

		<p>2: Observing Color Change in a Chemical Reaction</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
<b>DOMAIN / CONTENT STANDARD</b>	<b>CT.SN.</b>	<b>Scientific Numeracy: Scientific numeracy includes the ability to use mathematical operations and procedures to calculate, analyze and present scientific data and ideas.</b>
<b>STATE FRAMEWORK</b>	<b>C.INQ.2.</b>	<p>Read, interpret and examine the credibility of scientific claims in different sources of information.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity</li> </ul>

		<p>3: Production of a Salt - Neutralization Reaction</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	C.INQ.3.	<p>Design and conduct appropriate types of scientific investigations to answer different questions.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity</li> </ul>

		<p>1: Testing Properties of Acids, Bases, and Salts</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	C.INQ.5.	<p>Use appropriate tools and techniques to make observations and gather data.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity</li> </ul>

		<p>2: Writing a Description of a Chemical Reaction</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	C.INQ.7.	<p>Identify and present relationships between variables in appropriate graphs.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity</li> </ul>

		<p>1: Investigating Mixtures</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	C.INQ.8.	<p>Draw conclusions and identify sources of error.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> </ul>

		<ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	C.INQ.9.	<p>Provide explanations to investigated problems or questions.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity</li> </ul>

		<p>2: Exploring Changes in Matter</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	C.INQ.10.	<p>Communicate about science in different formats, using relevant science vocabulary, supporting evidence and clear logic.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity</li> </ul>

		<p>4: Chemical Structure of Soaps and Detergents</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
DOMAIN / CONTENT STANDARD	CT.7.1.	Energy Transfer and Transformations: Energy provides the ability to do work and can exist in many forms.
STATE FRAMEWORK	C.14.	<p>Describe how different types of stored (potential) energy can be used to make objects move.</p> <ul style="list-style-type: none"> <li>• Teacher Resource CD: Matter - Physical Properties and Changes</li> </ul>

DOMAIN / CONTENT STANDARD	CT.SI.	Scientific Inquiry: Scientific inquiry is a thoughtful and coordinated attempt to search out, describe, explain and predict natural phenomena. Scientific inquiry progresses through a continuous process of questioning, data collection, analysis and interpretation. Scientific inquiry requires the sharing of findings and ideas for critical review by colleagues and other scientists.
STATE FRAMEWORK	C.INQ.2.	<p>Read, interpret and examine the credibility of scientific claims in different sources of information.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> </ul>

		<ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	C.INQ.3.	<p>Design and conduct appropriate types of scientific investigations to answer different questions.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> </ul>

		<ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	C.INQ.5.	<p>Use appropriate tools and techniques to make observations and gather data.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> </ul>

		<ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	C.INQ.7.	<p>Identify and present relationships between variables in appropriate graphs.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> </ul>

		<ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	C.INQ.8.	<p>Draw conclusions and identify sources of error.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity</li> </ul>

		<p>2: Chemical Reactions of Acids with a Metal</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	C.INQ.9.	<p>Provide explanations to investigated problems or questions.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> </ul>

		<ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	C.INQ.10.	<p>Communicate about science in different formats, using relevant science vocabulary, supporting evidence and clear logic.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> </ul>

		<ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
DOMAIN / CONTENT STANDARD	CT.SL.	Scientific Literacy: Scientific literacy includes speaking, listening, presenting, interpreting, reading and writing about science. Scientific literacy also includes the ability to search for and assess the relevance and credibility of scientific information found in various print and electronic media.
STATE FRAMEWORK	C.INQ.2.	<p>Read, interpret and examine the credibility of scientific claims in different sources of information.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> </ul>

		<ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	C.INQ.3.	<p>Design and conduct appropriate types of scientific investigations to answer different questions.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> </ul>

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STATE FRAMEWORK	C.INQ.5.	<p>Use appropriate tools and techniques to make observations and gather data.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> </ul>

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STATE FRAMEWORK	C.INQ.7.	<p>Identify and present relationships between variables in appropriate graphs.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> </ul>

		<ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	C.INQ.8.	<p>Draw conclusions and identify sources of error.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity</li> </ul>

		<p>2: Forming Covalent Bonds</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	C.INQ.9.	Provide explanations to investigated problems or questions.

- Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions
- Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds
- Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds
- Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases
- Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt
- Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds
- Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents
- Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter
- Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter
- Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements
- Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table
- Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures
- Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water
- Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction
- Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law
- Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts
- Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal
- Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction
- Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction
- Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction
- Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction
- Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction
- Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction
- Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction
- Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction
- Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification
- Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass
- Virtual Laboratory: Titrating an Acid of Unknown

		Concentration
STATE FRAMEWORK	C.INQ.10.	<p>Communicate about science in different formats, using relevant science vocabulary, supporting evidence and clear logic.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity</li> </ul>

		<p>1: Water Purification</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
<b>DOMAIN / CONTENT STANDARD</b>	<b>CT.SN.</b>	<b>Scientific Numeracy: Scientific numeracy includes the ability to use mathematical operations and procedures to calculate, analyze and present scientific data and ideas.</b>
<b>STATE FRAMEWORK</b>	<b>C.INQ.2.</b>	<p>Read, interpret and examine the credibility of scientific claims in different sources of information.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity</li> </ul>

		<p>4: Observing a Biochemical Reaction</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	C.INQ.3.	<p>Design and conduct appropriate types of scientific investigations to answer different questions.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity</li> </ul>

		<p>2: Observing Color Change in a Chemical Reaction</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	C.INQ.5.	<p>Use appropriate tools and techniques to make observations and gather data.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity</li> </ul>

		<p>1: The Traffic Light Reaction</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	C.INQ.7.	<p>Identify and present relationships between variables in appropriate graphs.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity</li> </ul>

		<p>2: Chemical Reactions of Acids with a Metal</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	C.INQ.8.	<p>Draw conclusions and identify sources of error.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> </ul>

		<ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	C.INQ.9.	<p>Provide explanations to investigated problems or questions.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity</li> </ul>

		<p>2: Writing a Description of a Chemical Reaction</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	C.INQ.10.	<p>Communicate about science in different formats, using relevant science vocabulary, supporting evidence and clear logic.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity</li> </ul>

		<p>1: Investigating Mixtures</p> <ul style="list-style-type: none"> <li>Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
DOMAIN / CONTENT STANDARD	CT.8.1.	Forces and Motion: An object's inertia causes it to continue moving the way it is moving unless it is acted upon by a force to change its motion.
STATE FRAMEWORK	C.22.	<p>Calculate the average speed of a moving object and illustrate the motion of objects in graphs of distance over time.</p> <ul style="list-style-type: none"> <li>Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> </ul>

Connecticut Curriculum Frameworks  
Science  
Grade 9

DOMAIN / CONTENT STANDARD	CT.SI.	Scientific Inquiry: Scientific inquiry is a thoughtful and coordinated attempt to search out, describe, explain and predict natural phenomena. Scientific inquiry progresses through a continuous process of questioning, data collection, analysis and interpretation. Scientific inquiry requires the sharing of findings and ideas for critical review by colleagues and other scientists.
STATE FRAMEWORK	D.INQ.3.	Formulate a testable hypothesis and demonstrate logical connections between the scientific concepts guiding the hypothesis and the design of the experiment.

- Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions
- Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds
- Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds
- Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases
- Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt
- Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds
- Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents
- Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter
- Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter
- Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements
- Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table
- Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures
- Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water
- Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction
- Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law
- Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts
- Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal
- Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction
- Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction
- Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction
- Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction
- Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction
- Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction
- Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction
- Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction
- Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification
- Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass
- Virtual Laboratory: Titrating an Acid of Unknown

		Concentration
STATE FRAMEWORK	D.INQ.4.	<p>Design and conduct appropriate types of scientific investigations to answer different questions.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity</li> </ul>

		<p>1: Water Purification</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	D.INQ.6.	<p>Use appropriate tools and techniques to make observations and gather data.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity</li> </ul>

		<p>1: An Exothermic Reaction</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	D.INQ.8.	<p>Use mathematical operations to analyze and interpret data, and present relationships between variables in appropriate forms.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity</li> </ul>

		<p>3: Observing Gas Production During a Chemical Reaction</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	D.INQ.9.	<p>Articulate conclusions and explanations based on research data, and assess results based on the design of the investigation.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity</li> </ul>

		<p>1: Observing Temperature Change in a Chemical Reaction</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	D.INQ.10.	<p>Communicate about science in different formats, using relevant science vocabulary, supporting evidence and clear logic.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity</li> </ul>

		<p>3: Production of a Salt - Neutralization Reaction</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
<b>DOMAIN / CONTENT STANDARD</b>	<b>CT.SL.</b>	<p>Scientific Literacy: Scientific literacy includes the ability to read, write, discuss and present coherent ideas about science. Scientific literacy also includes the ability to search for and assess the relevance and credibility of scientific information found in various print and electronic media.</p>
<b>STATE FRAMEWORK</b>	<b>D.INQ.3.</b>	<p>Formulate a testable hypothesis and demonstrate logical connections between the scientific concepts guiding the hypothesis and the design of the experiment.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> </ul>

		<ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	D.INQ.4.	<p>Design and conduct appropriate types of scientific investigations to answer different questions.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> </ul>

		<ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	D.INQ.6.	<p>Use appropriate tools and techniques to make observations and gather data.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> </ul>

		<ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	D.INQ.8.	<p>Use mathematical operations to analyze and interpret data, and present relationships between variables in appropriate forms.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> </ul>

		<ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	D.INQ.9.	<p>Articulate conclusions and explanations based on research data, and assess results based on the design of the investigation.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> </ul>

		<ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	D.INQ.10.	<p>Communicate about science in different formats, using relevant science vocabulary, supporting evidence and clear logic.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> </ul>

		<ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
DOMAIN / CONTENT STANDARD	CT.SN.	Scientific Numeracy: Scientific numeracy includes the ability to use mathematical operations and procedures to calculate, analyze and present scientific data and ideas.
STATE FRAMEWORK	D.INQ.3.	Formulate a testable hypothesis and demonstrate logical connections between the scientific concepts guiding the hypothesis and the design

of the experiment.

- Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions
- Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds
- Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds
- Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases
- Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt
- Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds
- Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents
- Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter
- Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter
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- Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table
- Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures
- Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water
- Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction
- Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law
- Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts
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- Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction
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- Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction
- Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification
- Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass
- Virtual Laboratory: Titrating an Acid of Unknown

		Concentration
STATE FRAMEWORK	D.INQ.4.	<p>Design and conduct appropriate types of scientific investigations to answer different questions.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity</li> </ul>

		<p>1: Water Purification</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	D.INQ.6.	<p>Use appropriate tools and techniques to make observations and gather data.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity</li> </ul>

		<p>1: An Exothermic Reaction</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	D.INQ.8.	<p>Use mathematical operations to analyze and interpret data, and present relationships between variables in appropriate forms.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity</li> </ul>

		<p>3: Observing Gas Production During a Chemical Reaction</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
<p>STATE FRAMEWORK</p>	<p>D.INQ.9.</p>	<p>Articulate conclusions and explanations based on research data, and assess results based on the design of the investigation.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity</li> </ul>

		<p>1: Observing Temperature Change in a Chemical Reaction</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	D.INQ.10.	<p>Communicate about science in different formats, using relevant science vocabulary, supporting evidence and clear logic.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity</li> </ul>

		<p>3: Production of a Salt - Neutralization Reaction</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
<b>DOMAIN / CONTENT STANDARD</b>	<b>CT.9.1.</b>	<b>Energy Transformations: Energy Transfer and Transformations: Energy cannot be created or destroyed; however, energy can be converted from one form to another.</b>
<b>STATE FRAMEWORK</b>	<b>D.1.</b>	<p>Describe the effects of adding energy to matter in terms of the motion of atoms and molecules, and the resulting phase changes.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Teacher Resource CD: Matter - Physical Properties and Changes</li> </ul>
<b>DOMAIN / CONTENT STANDARD</b>	<b>CT.9.4.</b>	<b>Chemical Structures and Properties: Properties of Matter: Atoms react with one another to form new molecules.</b>
<b>STATE FRAMEWORK</b>	<b>D.10.</b>	<p>Describe the general structure of the atom, and explain how the properties of the first 20 elements in the Periodic Table are related to their atomic structures.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> </ul>

		<ul style="list-style-type: none"> <li>Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>Teacher Resource CD: Matter - Physical Properties and Changes</li> </ul>
STATE FRAMEWORK	D.11.	<p>Describe how atoms combine to form new substances by transferring electrons (ionic bonding) or sharing electrons (covalent bonding).</p> <ul style="list-style-type: none"> <li>Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>Teacher Resource CD: Matter - Chemical Properties and Changes</li> <li>Teacher Resource CD: Matter - Physical Properties and Changes</li> </ul>
STATE FRAMEWORK	D.12.	<p>Explain the chemical composition of acids and bases, and explain the change of pH in neutralization reactions.</p> <ul style="list-style-type: none"> <li>Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>Teacher Resource CD: Matter - Chemical Properties and Changes</li> <li>Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
DOMAIN / CONTENT STANDARD	CT.9.5.	Chemical Structures and Properties: Properties of Matter: Due to its unique chemical structure, carbon forms many organic and inorganic compounds.
STATE FRAMEWORK	D.13.	Explain how the structure of the carbon atom affects the type of bonds

		<p>it forms in organic and inorganic molecules.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Teacher Resource CD: Matter - Physical Properties and Changes</li> </ul>
STATE FRAMEWORK	D.14.	<p>Describe combustion reactions of hydrocarbons and their resulting by-products.</p> <ul style="list-style-type: none"> <li>• Teacher Resource CD: Matter - Chemical Properties and Changes</li> </ul>
STATE FRAMEWORK	D.15.	<p>Explain the general formation and structure of carbon-based polymers, including synthetic polymers, such as polyethylene, and biopolymers, such as carbohydrate.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Teacher Resource CD: Matter - Physical Properties and Changes</li> </ul>
DOMAIN / CONTENT STANDARD	CT.9.6.	<p>Chemical Structure and Properties: Science and Technology in Society: Chemical technologies present both risks and benefits to the health and well-being of humans, plants and animals.</p>
STATE FRAMEWORK	D.18.	<p>Explain the short- and long-term impacts of landfills and incineration of waste materials on the quality of the environment.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> </ul>
DOMAIN / CONTENT STANDARD	CT.9.8.	<p>Chemical Structure and Properties: Science and Technology in Society: The use of resources by human populations may affect the quality of the environment.</p>
STATE FRAMEWORK	D.22.	<p>Explain how the release of sulfur dioxide (SO<sub>2</sub>) into the atmosphere can form acid rain, and how acid rain affects water sources, organisms and human-made structures.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Teacher Resource CD: Matter - Chemical Properties and Changes</li> <li>• Teacher Resource CD: Matter - Physical Properties and</li> </ul>

		Changes
STATE FRAMEWORK	D.24.	<p>Explain how the accumulation of mercury, phosphates and nitrates affects the quality of water and the organisms that live in rivers, lakes and oceans.</p> <ul style="list-style-type: none"> <li>Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> </ul>
DOMAIN / CONTENT STANDARD	CT.9.9.	Chemical Structure and Properties: Science and Technology in Society: Some materials can be recycled, but others accumulate in the environment and may affect the balance of the Earth systems.
STATE FRAMEWORK	D.25.	<p>Explain how land development, transportation options and consumption of resources may affect the environment.</p> <ul style="list-style-type: none"> <li>Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> </ul>
STATE FRAMEWORK	D.26.	<p>Describe human efforts to reduce the consumption of raw materials and improve air and water quality.</p> <ul style="list-style-type: none"> <li>Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> </ul>

Connecticut Curriculum Frameworks

Science

Grade 10

DOMAIN / CONTENT STANDARD	CT.SI.	<p>Scientific Inquiry: Scientific inquiry is a thoughtful and coordinated attempt to search out, describe, explain and predict natural phenomena. Scientific inquiry progresses through a continuous process of questioning, data collection, analysis and interpretation. Scientific inquiry requires the sharing of findings and ideas for critical review by colleagues and other scientists.</p>
STATE FRAMEWORK	D.INQ.3.	<p>Formulate a testable hypothesis and demonstrate logical connections between the scientific concepts guiding the hypothesis and the design of the experiment.</p> <ul style="list-style-type: none"> <li>Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity</li> </ul>

		<p>1: Examining Elements</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	D.INQ.4.	<p>Design and conduct appropriate types of scientific investigations to answer different questions.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity</li> </ul>

		<p>1: Classifying Matter</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	D.INQ.6.	<p>Use appropriate tools and techniques to make observations and gather data.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity</li> </ul>

		<p>3: Forming Organic Compounds</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	D.INQ.8.	<p>Use mathematical operations to analyze and interpret data, and present relationships between variables in appropriate forms.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity</li> </ul>

		<p>1: Molecular Structure of Acids and Bases</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	D.INQ.9.	<p>Articulate conclusions and explanations based on research data, and assess results based on the design of the investigation.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity</li> </ul>

		<p>2: Forming Covalent Bonds</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	D.INQ.10.	Communicate about science in different formats, using relevant science vocabulary, supporting evidence and clear logic.

- Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions
- Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds
- Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds
- Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases
- Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt
- Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds
- Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents
- Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter
- Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter
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- Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures
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- Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction
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- Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction
- Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction
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- Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction
- Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification
- Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass
- Virtual Laboratory: Titrating an Acid of Unknown

		Concentration
DOMAIN / CONTENT STANDARD	CT.SL.	Scientific Literacy: Scientific literacy includes the ability to read, write, discuss and present coherent ideas about science. Scientific literacy also includes the ability to search for and assess the relevance and credibility of scientific information found in various print and electronic media.
STATE FRAMEWORK	D.INQ.3.	<p>Formulate a testable hypothesis and demonstrate logical connections between the scientific concepts guiding the hypothesis and the design of the experiment.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> </ul>

		<ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	D.INQ.4.	<p>Design and conduct appropriate types of scientific investigations to answer different questions.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> </ul>

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STATE FRAMEWORK	D.INQ.6.	<p>Use appropriate tools and techniques to make observations and gather data.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> </ul>

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STATE FRAMEWORK	D.INQ.8.	<p>Use mathematical operations to analyze and interpret data, and present relationships between variables in appropriate forms.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> </ul>

		<ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	D.INQ.9.	<p>Articulate conclusions and explanations based on research data, and assess results based on the design of the investigation.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> </ul>

		<ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	D.INQ.10.	<p>Communicate about science in different formats, using relevant science vocabulary, supporting evidence and clear logic.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> </ul>

		<ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
DOMAIN / CONTENT STANDARD	CT.SN.	Scientific Numeracy: Scientific numeracy includes the ability to use mathematical operations and procedures to calculate, analyze and present scientific data and ideas.
STATE FRAMEWORK	D.INQ.3.	<p>Formulate a testable hypothesis and demonstrate logical connections between the scientific concepts guiding the hypothesis and the design of the experiment.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity</li> </ul>

		<p>1: Examining Elements</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	D.INQ.4.	<p>Design and conduct appropriate types of scientific investigations to answer different questions.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity</li> </ul>

		<p>1: Classifying Matter</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	D.INQ.6.	<p>Use appropriate tools and techniques to make observations and gather data.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity</li> </ul>

		<p>3: Forming Organic Compounds</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	D.INQ.8.	<p>Use mathematical operations to analyze and interpret data, and present relationships between variables in appropriate forms.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity</li> </ul>

		<p>1: Molecular Structure of Acids and Bases</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	D.INQ.9.	<p>Articulate conclusions and explanations based on research data, and assess results based on the design of the investigation.</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 1: Modeling Atoms and Ions</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity</li> </ul>

		<p>2: Forming Covalent Bonds</p> <ul style="list-style-type: none"> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds</li> <li>• Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 1: Examining Elements</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 4 Activity 2: A Closer Look at the Periodic Table</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 5 Activity 1: Investigating Mixtures</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 1: Separating the Compound Water</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 2 Lab 7 Activity 1: Demonstrating Boyle's Gas Law</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 1: Testing Properties of Acids, Bases, and Salts</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 2: Chemical Reactions of Acids with a Metal</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 10 Activity 3: Production of a Salt - Neutralization Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 11 Activity 1: The Traffic Light Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 1: Observing Temperature Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 2: Observing Color Change in a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 3: Observing Gas Production During a Chemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 8 Activity 4: Observing a Biochemical Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 1: An Exothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 3 Lab 9 Activity 2: An Endothermic Reaction</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> <li>• Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass</li> <li>• Virtual Laboratory: Titrating an Acid of Unknown Concentration</li> </ul>
STATE FRAMEWORK	D.INQ.10.	Communicate about science in different formats, using relevant science vocabulary, supporting evidence and clear logic.

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- Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 2: Forming Covalent Bonds
- Chemistry - A Closer Look at Matter: Unit 1 Lab 1 Activity 3: Forming Ionic Bonds
- Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 1: Molecular Structure of Acids and Bases
- Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 2: Crystal Structure of Common Salt
- Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 3: Forming Organic Compounds
- Chemistry - A Closer Look at Matter: Unit 1 Lab 2 Activity 4: Chemical Structure of Soaps and Detergents
- Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 1: Classifying Matter
- Chemistry - A Closer Look at Matter: Unit 2 Lab 3 Activity 2: Exploring Changes in Matter
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- Chemistry - A Closer Look at Matter: Unit 2 Lab 6 Activity 2: Writing a Description of a Chemical Reaction
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- Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification
- Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 2: Demonstrating Conservation of Mass
- Virtual Laboratory: Titrating an Acid of Unknown

		Concentration
DOMAIN / CONTENT STANDARD	CT.10.6.	Genetics, Evolution and Biodiversity: Science and Technology in Society: Living organisms have the capability of producing populations of unlimited size, but the environment can support only a limited number of individuals from each species.
STATE FRAMEWORK	D.43.	Describe the factors that affect the carrying capacity of the environment. <ul style="list-style-type: none"> <li>Teacher Resource CD: Matter - Chemical Properties and Changes</li> </ul>
STATE FRAMEWORK	D.44.	Explain how change in population density is affected by emigration, immigration, birth rate and death rate, and relate these factors to the exponential growth of human populations. <ul style="list-style-type: none"> <li>Teacher Resource CD: Matter - Chemical Properties and Changes</li> </ul>
STATE FRAMEWORK	D.45.	Explain how technological advances have affected the size and growth rate of human populations throughout history. <ul style="list-style-type: none"> <li>Chemistry - A Closer Look at Matter: Unit 4 Lab 12 Activity 1: Water Purification</li> </ul>

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