# Georgia State Science Standards Correlation

Inquiry Investigations™ Physical Science Series I - 1013060

| Standard Topic | Concept | Standard # | UNIT 1 THE WORLD OF PHYSICAL SCIENCE: Exploring the Scientific Method LAB 1013080 — Effect of temperature on the emergence of sponge creatures | UNIT 1 THE WORLD OF PHYSICAL SCIENCE: Exploring the Scientific Method LAB 1013080 — Effect of pH on the emergence of sponge creatures | UNIT 1 THE WORLD OF PHYSICAL SCIENCE: Exploring the Science of Measurement LAB 1013082 — The metric system (SI) | Measuring density | Measuring temperature | Measuring pH | Measuring low concentrations of water pollutants | UNIT 2 HEAT AND ENERGY: Exploring Heat and Energy LAB 1013084 — Heat of fusion of ice | Thermal conductivity of different metals | Thermal expansion | Demonstrating radiant heat and energy | Calibration of a thermometer | UNIT 3 LIGHT AND OPTICS: Exploring Light and Optics LAB 1013086 — Visible light spectrum | What is color? | Reflection of light | Polarized light | The laser | UNIT 4 ELECTRICITY: Exploring Electricity LAB 1013088 — The electroscope | Electrolytes | Resistors in series and parallel |
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| Habits of Health | Students will explore the importance of curiosity, honestly, openness, and skepticism in science and will exhibit these traits in their own efforts to understand how the world works. | S6CS1, S7CS1, S8CS1 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| | Students will use standard practices for all classroom laboratory and field investigations. | S6CS2, S7CS2, S8CS2 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| | Students will use computation and estimation skills necessary for analyzing data and following scientific explanations. | S6CS3, S7CS3, S8CS3 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| | Students will use tools and instruments for observing, measuring, and manipulating equipment and materials in scientific activities. | S6CS4, S7CS4, S8CS4 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| | Students will use the ideas of system, model, change, and scale in exploring scientific and technological matters. | S6CS5, S7CS5, S8CS5 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| | Students will communicate scientific ideas and activities clearly. | S6CS6, S7CS6, S8CS6 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| | Students will question scientific claims and arguments effectively. | S6CS7, S7CS7, S8CS7 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| The Nature of Science | Students will investigate the characteristics of scientific knowledge and how it is achieved. | S6CS8, S7CS8, S8CS8 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| | Students will investigate the features of the process of scientific inquiry. | S6CS9, S7CS9, S8CS9 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| | Students will enhance reading in all curriculum areas by: Discussing books, Building vocabulary knowledge, and Establishing context. | S6CS10, S7CS10, S8CS10 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Co-Requisite- Content Grade 8 Physical | Students will examine the scientific view of the nature of matter. | S8P1 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| | Students will be familiar with the forms and transformations of energy. | S8P2 | ■ | ■ | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| | Students will investigate relationship between force, mass, and the motion of objects. | S8P3 | ■ | ■ | | | | | | | | | | | | | | | | | |
| | Students will explore the wave nature of sound and electromagnetic radiation. | S8P4 | ■ | ■ | | | | | | | | | | | | | | | | | |
| | Students will recognize characteristics of gravity, electricity, and magnetism as major kinds of forces acting in nature. | S8P5 | ■ | ■ | | | | | | | | | | | | | | | | ■ | ■ |

# Georgia State Science Standards Correlation

Inquiry Investigations™ Physical Science Series II - 1013061

| Standard Topic | Concept | Standard # | UNIT 1 GRAVITY: Exploring Gravity LAB 1013090 | | | | UNIT 2 MAGNETISM: Exploring Magnetism LAB 1013092 | | | | UNIT 3 PROPERTIES OF SOUND: Exploring Sound Waves LAB 1013094 | | | | UNIT 4 FORCES, MOTION, AND SIMPLE MACHINES: Exploring Force and Motion LAB 1013096 | | | | Exploring Simple Machines LAB 1013098 | | |
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| | | | Determination of the density of a solid | Learning about gravitation | Archimedes principle | Teacher demonstration - pressure | Investigating the behavior of the magnetic compass | The magnetic field of a bar magnet | Constructing an electromagnet | Electromagnetic induction | Investigating properties of sound | Interaction of sound waves | Doppler effect | Observing the properties of a wave | Investigating Newton's laws of motion | Friction | Rotational inertia | Collisions | The lever | The pulley | The inclined plane |
| Habits of Health | Students will explore the importance of curiosity, honestly, openness, and skepticism in science and will exhibit these traits in their own efforts to understand how the world works. | S6CS1, S7CS1, S8CS1 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| | Students will use standard practices for all classroom laboratory and field investigations. | S6CS2, S7CS2, S8CS2 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| | Students will use computation and estimation skills necessary for analyzing data and following scientific explanations. | S6CS3, S7CS3, S8CS3 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| | Students will use tools and instruments for observing, measuring, and manipulating equipment and materials in scientific activities. | S6CS4, S7CS4, S8CS4 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| | Students will use the ideas of system, model, change, and scale in exploring scientific and technological matters. | S6CS5, S7CS5, S8CS5 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| | Students will communicate scientific ideas and activities clearly. | S6CS6, S7CS6, S8CS6 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| | Students will question scientific claims and arguments effectively. | S6CS7, S7CS7, S8CS7 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| The Nature of Science | Students will investigate the characteristics of scientific knowledge and how it is achieved. | S6CS8, S7CS8, S8CS8 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| | Students will investigate the features of the process of scientific inquiry. | S6CS9, S7CS9, S8CS9 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| | Students will enhance reading in all curriculum areas by: Discussing books, Building vocabulary knowledge, and Establishing context. | S6CS10, S7CS10, S8CS10 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Co-Requisite- Content Grade 8 Physical | Students will examine the scientific view of the nature of matter. | S8P1 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| | Students will investigate relationship between force, mass, and the motion of objects. | S8P3 | | | | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| | Students will explore the wave nature of sound and electromagnetic radiation. | S8P4 | | | | | | | | | ■ | ■ | ■ | ■ | | | | | | | |
| | Students will recognize characteristics of gravity, electricity, and magnetism as major kinds of forces acting in nature. | S8P5 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | |

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