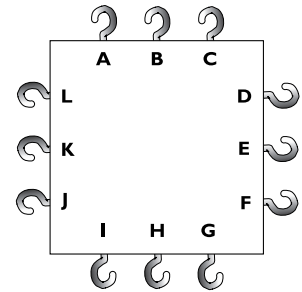


Direction Guide for Activity One

Part I:

1. Mark a spot on a smooth surface with a washable marker. This represents the starting position.
2. Place the end of the force block with the letter L at the starting position.
3. Tie the string ends together so you have a loop.
4. Attach one end of the loop to the spring scale and the other end to the hook at letter E.
5. Hold the block in place. Pull the scale until it reads 6N and release the block.
6. Measure how far the block moved from its starting position.
7. Record the distance on your activity sheet.



Part II:



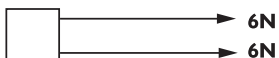

1. Replace the end of the block with the letter L at the starting position.
2. Attach one spring scale with a string to the hook at letter D.
3. Attach one spring scale with a string to the hook at letter F.

You now have a set up where **TWO** forces pull on the block.

4. You want to move the block the same distance in the same direction as you did in Part I.
5. Record your prediction on your activity sheet.
6. Test your prediction. Record your observations.

Part III: Combining Forces in the Same Direction

Here are some set ups that other groups tried:

- A)  5N
1N
- B)  2N
4N
- C)  6N
6N
- D)  3N
3N