**Pulses on Springs**

**Part 1: Pulse Motion**

*Instructions:*

1. Place a piece of colored tape near the middle of the spring so you have a reference point to refer to as you make observations.

2. Have two group members hold opposite ends of a spring stretched out along the floor.

3. Send a single wave pulse through the spring and observe.

|  |  |
| --- | --- |
| Describe what you see in words. | Sketch your pulse. Label/identify any parts that you think are important. |
| Describe the motion of the colored piece of tape. | Describe the direction of energy transfer. How do you know? |

**On your sketch above draw an arrow to represent the direction of the motion of the colored piece of tape and draw a second arrow to represent the direction of energy transfer. Be sure to label these arrows.**

**Use words to explain what your sketch above tells you about the direction of material motion and energy movement in a pulse.**

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