

NAME \_\_\_\_\_

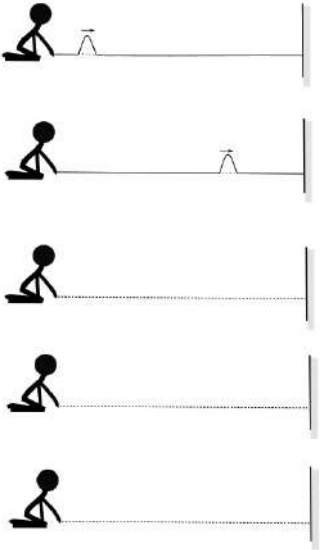
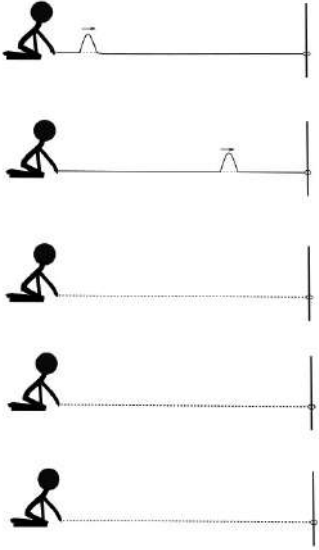
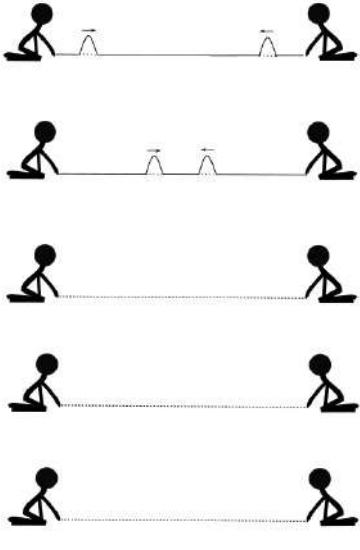
DATE \_\_\_\_\_

**Scenario**

Blake holds the free end of a very light spring, while the other end remains fixed to the wall.

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**Using Representations**

<p><b>PART A:</b> Blake first sends a wave pulse toward the wall. Sketch the pulse as it continues toward the wall and returns to Blake.</p>	<p><b>PART B:</b> Blake now sends a pulse toward the end of the spring, but this time, the other end is attached loosely on a pole so that the end of the spring is free to move. Sketch the pulse as it continues toward the pole and returns to Blake.</p>	<p><b>PART C:</b> Now one end of the string is held by Blake and the other by Carlos. Each student sends a pulse on the string toward the other student. Sketch the pulses as they continue on the string. Make sure to sketch what happens when the pulses meet.</p>
		
<p>Explain your reasoning</p>	<p>Explain your reasoning</p>	<p>Explain your reasoning</p>

### Argumentation

**PART D:** Dominique watches what is happening as the two pulses move toward each other and states, “If the two wave pulses traveling in opposite directions along the same string meet, they reflect off each other and go back the way they came from.” What if anything is wrong with this statement? If something is wrong, identify it and explain how to correct it. If this statement is correct, explain why.

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