

4. How is the motion of the rope affected by moving your hand faster?

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**Part B**

1. What happens to the water when you drop the bottle cap into it?

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2. What happens to the water when you turn the blow dryer on?

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3. What happens when you change the position of the blow dryer?

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4. How were the motions of the water similar to the motions of the rope?

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**Analysis and Conclusions**

1. What caused the motion of the rope?

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2. What caused the movement of the water?

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3. What do the causes of motion have in common?

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4. Based on your observations, define the term wave and explain what causes a wave.

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