

Wave Speed Investigations Review

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Understanding Wave Properties and Behavior

Name: _____

Date: _____

Answer the following questions based on what you've learned about wave speed and its factors.

1. What can increase wave speed?

- A. Increased tension
- B. Decreased frequency
- C. Lighter medium

2. What are the three main factors that affect wave speed?

3. Waves travel differently based on their ____.

4. Different mediums do not affect how waves travel.

- True False

5. Which medium might allow waves to travel faster?

- A. Water
- B. Air
- C. Solid material

6. How might changing the slinky's tension affect wave speed?

7. Scientists measure wave transmission by observing the ____ of the waves.

8. The environment has no impact on wave behavior.

- True False

9. What happens when waves travel through different materials?

- A. They move slower in all cases
- B. They can change speed and direction
- C. They disappear

10. What did God establish that relates to our study of waves?

Answer Key

1. Increased tension 2. Tension, medium, and frequency affect wave speed. 3. environment 4. False 5. Solid material 6. Increasing the tension makes the waves travel faster because the slinky is tighter. 7. speed 8. False 9. They can change speed and direction 10. God established precise laws governing wave motion, similar to the principles we study.