

Anatomy of a Wave Review

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Understanding Wave Properties and God's Creation

Name: _____

Date: _____

Answer the following questions based on what you learned about waves.

1. What is the wavelength?

- A. The height of the wave
- B. The distance between wave peaks
- C. The number of waves per second

2. The ____ is the highest point of a wave.

3. How does amplitude relate to wave energy? Give an example.

4. Frequency is the distance between wave peaks.

- True False

5. What is the trough of a wave?

- A. The highest point
- B. The lowest point
- C. The distance between waves

6. Waves move energy through ____ in the water.

7. Where do we see waves in God's creation? Describe one example.

8. All waves have the same frequency.

- True False

9. What does a higher frequency mean?

- A. More waves passing a point in a second
- B. Fewer waves passing a point in a second
- C. Lower energy waves

10. God's creation is full of intricate designs, like ____ patterns and energy transfer.

Answer Key

1. The distance between wave peaks 2. crest 3. Amplitude is the height of the wave, and a higher amplitude means the wave carries more energy. For example, ocean waves with tall crests have more energy than small ripples. 4. False 5. The lowest point 6. particles 7. We see waves in the ocean, where the water moves up and down as waves crash on the shore. This shows God's design in nature. 8. False 9. More waves passing a point in a second 10. wave