Waves, Light, and Sound

Grade 4 Science Worksheet

Name _____ Date _____

Circle the answer.

1. A toy duck floats on a pond. A wave passes under it. How does the duck move?

   up and down in about the same spot

   all the way across the pond with the wave

   down to the bottom of the pond

   in a circle around the pond

2. A whale's song can be heard many kilometers away. What does the sound wave carry through the water?

   water from the whale's mouth

   energy from the whale's vibrations

   light from the whale's eyes

   the whale's air bubbles

3. Rope wave A has 2 crests in 1 meter. Rope wave B has 4 crests in 1 meter. Which has the shorter wavelength?

   you need the amplitude to tell

   they have the same wavelength

   Rope wave B

   Rope wave A

4. What is the top of a wave called?

   the ripple the crest the trough the wavelength

5. Water waves in a tray have a small amplitude. A student makes the waves taller. What else is true?

   the waves now carry less energy

   the waves now carry more energy

   the crests are now farther apart

   the waves now move the water across the tray

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Answer Key - Grade 4 Science Worksheet

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