Waves, Light, and Sound

Grade 4 Science Worksheet - Challenge Me

Name _____ Date _____

Circle the answer.

1. Which change makes a wave's crests farther apart?

   a shorter wavelength a longer wavelength a smaller amplitude

   a bigger amplitude

2. A model shows wave crests getting closer together while their height stays the same. What is changing?

   the amplitude is getting bigger

   the amplitude is getting smaller

   the wavelength is getting shorter

   the wavelength is getting longer

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

   the crests are now farther apart

   the waves now move the water across the tray

   the waves now carry more energy

   the waves now carry less energy

4. A cork floats on water. Waves pass it. After the waves pass, where is the cork?

   in about the same place it started

   far across the water with the waves

   pushed up onto the shore

   at the bottom of the water

5. A boy turns up the volume on a radio. What changes about the sound waves?

   their amplitude gets bigger

   they move slower

   their wavelength gets longer

   their amplitude gets smaller

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Answer Key - Grade 4 Science Worksheet - Challenge Me

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