Waves, Light, and Sound

Grade 4 Science Worksheet - Building Confidence

Name _____ Date _____

Circle the answer.

1. Wave A has crests 2 cm apart. Wave B has crests 6 cm apart. Which is true?

   Wave B has the longer wavelength

   both have the same wavelength

   Wave A has the longer wavelength

2. 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 crests are now farther apart

   the waves now carry more energy

3. What is the lowest point of a wave called?

   the crest the amplitude the trough

4. Why can't you see your book in a completely dark room?

   your eyes stop working at night

   no light bounces off it into your eyes

   the book disappears in the dark

5. Which object reflects the most light?

   a black cloth a piece of dark felt a shiny mirror

Scan to get this marked free. No screen time for your child.
Print it · do it in pencil · scan it · PencilGo picks the next sheet.

Waves, Light, and Sound

Answer Key - Grade 4 Science Worksheet - Building Confidence

Circle the answer.

1. Wave A has crests 2 cm apart. Wave B has crests 6 cm apart. Which is true?

   Wave B has the longer wavelength

   both have the same wavelength

   Wave A has the longer wavelength

2. 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 crests are now farther apart

   the waves now carry more energy

3. What is the lowest point of a wave called?

   the crest the amplitude the trough

4. Why can't you see your book in a completely dark room?

   your eyes stop working at night

   no light bounces off it into your eyes

   the book disappears in the dark

5. Which object reflects the most light?

   a black cloth a piece of dark felt a shiny mirror