Waves, Light, and Sound

Grade 4 Science Worksheet

Name _____ Date _____

Circle the answer.

1. Wave A has crests 2 cm apart. Wave B has crests 6 cm apart. Which is true?
   Wave A has the longer wavelength
   Wave B has the bigger amplitude
   Wave B has the longer wavelength
   both have the same wavelength

2. A boy turns up the volume on a radio. What changes about the sound waves?
   they move slower
   their amplitude gets bigger
   their wavelength gets longer
   their amplitude gets smaller

3. A periscope lets you see over a wall. It has two mirrors. How does it work?
   the mirrors bend sound over the wall
   the mirrors send light from your eye over the wall
   the mirrors reflect light from the object down into your eye
   the mirrors make their own light

4. Why can you see a tree outside your window on a sunny day?
   sunlight reflects off the tree and enters your eyes
   the window makes light that reaches the tree
   light leaves your eyes and lights up the tree
   the tree glows with its own light

5. Light from a lamp hits a smooth spoon and a rough rock. Why do you see your face only in the spoon?
   the smooth spoon reflects light back in an even pattern
   the spoon makes light of its own
   the rock sends light only upward
   the rock soaks up every bit of light

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Answer Key - Grade 4 Science Worksheet

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