Name: _____ **Date:** _____

Answer Key: Hear the Roar and See the Glow! 2nd Grade Wave Adventure

Ready your young scientists to identify vibration sources and light reflections in this perfect quick-check for your daily science stations.

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1. If you want to make a sound with a rubber band, what must the rubber band do?

Answer: B) Vibrate back and forth

Sound is created by vibrations, which are fast back-and-forth movements.

2. When you look into a shiny metal spoon, you can see your face because the light is _____.

Answer: C) Reflecting

Reflection happens when light bounces off a smooth, shiny surface like a spoon or mirror.

3. True or False: A dark room has no light waves for our eyes to see.

Answer: A) True

Humans need light to see; without light sources or reflections, a room stays dark.

4. Which of these objects is a light source that makes its own light?

Answer: B) A campfire

A campfire creates its own light through burning, while the other objects just reflect light.

5. A loud drum makes a big vibration, but a quiet whisper makes a _____ vibration.

Answer: C) Small

The size of a vibration changes the volume; small vibrations create softer sounds.

6. True or False: Sound can travel through a solid wooden door.

Answer: A) True

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Sound waves can travel through gases (air), liquids (water), and solids (wood).

7. What happens when you place a piece of clear glass in front of a flashlight?

Answer: A) The light passes through

Clear (transparent) materials allow light waves to pass straight through them.

8. When you tap a glass of water with a spoon, the glass _____ to make a sound.

Answer: A) Vibrates

Tapping the glass causes it to shake quickly, or vibrate, which produces the sound.

9. True or False: Light travels in a straight line until it hits something.

Answer: A) True

Light beams move in straight paths unless they are reflected or blocked.

10. Which sense do we use to detect sound waves?

Answer: C) Hearing

Our ears are the organs designed to catch sound vibrations and send them to the brain.