

Name: _____ Date: _____

Sonic the Hedgehog's Vibration Lab: 2nd Grade Wave Quiz

Your classroom becomes a sound studio as you investigate how drum skins and guitar strings move to create the music we hear.

1. If you touch a drum while it is making a loud noise, what will your hand feel?

- A. The drum will feel very hot
- B. The drum will be perfectly still
- C. The drum will be shaking or vibrating
- D. The drum will feel wet

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

- A. True
- B. False

3. To make a ____ sound on a piano, you must hit the key with more energy.

- A. Higher
- B. Louder
- C. Softer
- D. Lower

4. Which of these objects would reflect light the best, like a mirror?

- A. A fluffy teddy bear
- B. A piece of clear glass
- C. A shiny silver spoon
- D. A black piece of paper

5. True or False: If there is no light at all in a room, you can still see colorful objects.

- A. True
- B. False

6. When you put a straw in a glass of water, it looks broken or bent because the light ____.

- A. Changes speed
- B. Stops moving
- C. Turns into sound
- D. Disappears

7. A tiny bird chirps and a giant lion roars. What is the main difference in their sounds?

- A. The bird has a higher pitch
- B. The lion has a higher pitch
- C. The bird uses more energy

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D. They both sound exactly the same

8. A shadow is formed on the ground because an object ____ the light.

- A. Catches
- B. Blocks
- C. Creates
- D. Bends

9. True or False: If you vibrate a rubber band faster, the pitch of the sound will get lower.

- A. True
- B. False

10. Why does a flashlight help you see in a dark cave?

- A. It makes the cave walls move
- B. It provides light to reflect off objects
- C. It makes the cave warmer
- D. It creates sound waves