

Musical Instruments: Science in Action

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Understanding Sound Waves

Name: _____

Date: _____

Answer the following questions based on what you learned about musical instruments and sound waves.

1. What creates sound waves in musical instruments?

- A. Vibrating objects
- B. Static objects
- C. Cold air

2. The volume of sound depends on the energy of ____

3. How do different lengths and tensions of strings affect the sound produced by instruments?

4. All musical instruments produce sound the same way.

- True False

5. Which of the following instruments did the Bible mention for praising God?

- A. Trumpet
- B. Drum
- C. Flute

6. What did you learn about sound waves today?

7. God's creativity in sound design can be seen in the variety of ____ created.

8. What is one way to praise God through understanding His creation?

- A. By learning about sound waves
- B. By ignoring musical instruments
- C. By only listening to music

9. The pitch of a sound is affected by the tension of the vibrating object.

- True False

10. How can you create your own instrument to demonstrate pitch and volume?

Answer Key

1. Vibrating objects 2. vibration 3. They create different pitches; shorter strings make higher sounds, while longer strings produce lower sounds. 4. False 5. Trumpet 6. I learned that sound waves are created by vibrations and that they can vary in pitch and volume. 7. instruments 8. By learning about sound waves 9. True 10. You can use a box and strings to make a guitar or use rubber bands on a container to create different sounds.