

SCA Science 5 – Study Guide

Chapter 9

Name: _____

I. Fill in the Blank: Write the correct answer in the blank

- _____ 1. A rapid back-and-forth movement is a ____.
- _____ 2. A vibration that can be heard is a ____.
- _____ 3. A disturbance that moves energy from place to place is a ____.
- _____ 4. Most of the sounds we hear travel through ____.
- _____ 5. Sound waves can travel through ____, liquids, or ____.
- _____ 6.

timbre	frequency	different	decibels	volume
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- _____ 7. The intensity of a sound is measured in ____.
- _____ 8. The pitch of a sound is related to its ____.
- _____ 9. Musical instruments can play at the same pitch and volume, but they sound ____ because of their timbre.
- _____ 10. The loudness or softness of a sound is ____.
- _____ 11. The quality of a sound that distinguishes it from other sounds is ____.

_____21. You would most likely hear echos in a room with _____ walls.

A. smooth

B. rough

C. fuzzy

III. True – False: Write “T” for True or “F” for False.

_____22. Sound waves are mechanical waves.

_____23. Sound waves move the slowest through solids

_____24. The number of sound waves that pass a point in one second is a frequency

_____25. Sound waves travel in all directions toward the source of sound.

_____26. Most of the sounds we hear are a blend of several waves.

_____27. Too many large, loud vibrations can damage the human ear and cause ear pain.

_____28. A slowly vibrating object will have a high pitch.

_____29. Pitch is how high or low a sound is.

_____30. As the intensity of a sound increases, the volume also increases.