

5.2a

1. Pitch of sound is how high or how low it is. Which of the following statements about pitch is true?

- A A bird's chirp has a lower pitch than a man's voice.
- B A bird's chirp has a higher pitch than a truck's engine.
- C A bird's chirp has a higher pitch than any other sound.
- D A bird's chirp has a lower pitch than the rumble of a truck.

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2. Sound is *most* similar to a —

- A stream.
- B wave.
- C solid.
- D liquid.

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3. The rapid back and forth motion of matter that results in sound is a —

- A frequency.
- B resonance.
- C wavelength.
- D vibration.

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4. Which is the *best* description of sound waves?

- A Sound waves are very low-frequency radio waves.
- B Sound waves are vibrations transmitted through matter.
- C Sound waves are rapid changes in magnetic fields.
- D Sound waves are rapid changes in the attraction between molecules.

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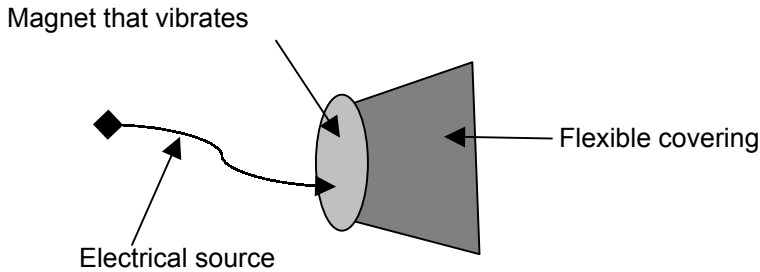
5. What is the relationship between the frequencies and wavelengths of sound waves?

- A As the sound frequency increases, so does its wavelength.
- B As the sound frequency increases, its wavelength decreases.
- C As sound frequency increases, its wavelength first increases and then decreases, in cycles.
- D Sound frequencies and wavelengths are not related.

5.2c

38. Look at the diagram below. The speaker is changing electricity into —

Speaker Diagram



- A** colors.
- B** light.
- C** sound.
- D** heat.

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39. The class was asked to conduct an investigation to find out which musical instruments produce the highest pitch. What should be their first step?

- A** Research information about different instruments.
- B** Make conclusions about different instruments.
- C** Compare different hypotheses about instruments.
- D** Collect and graph data on various instruments.

5.2c

40. Mrs. Cox lets her third grade students choose their own seats. Carson wants to be able to clearly hear every word his teacher says. Where would be the best place for him to sit?

- A** The front of the room is best because the sound waves will be louder there.
- B** The back of the room is best because sound waves get louder as they go further away.
- C** The middle of the room is best because the sound will echo there.
- D** The side of the room is best because sound waves travel outward to the right and left.