## Sound

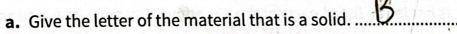
## 3.1 Sound waves and how they travel

1. Use the words from the box to complete the sentences below.

Use each word once, more than once, or not at all.

air compressions waves solids vibrating rarefactions moving vacuum radio

- a. All sound is produced by something that is .V.b.ca.ting... Sound can travel through solids, liquids, and gases but not through a ...V.a.G.v.m...
- b. Sound ... Wayes ... consist of Complession where the particles are close together) and lalefraction (where the particles are further apart).
- 2. Here is a bar chart showing the speed of sound in different materials, A, B, and C. One is a solid, one is a liquid, and one is a gas.

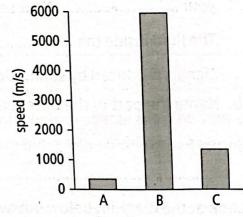


- b. Is material A a solid, a liquid, or a gas? .....
- c. How much faster, approximately, does sound travel in solids than in gases? Circle one of the answers below.



100 times faster

10 times faster



## **Extension**

When there is an earthquake, waves called seismic waves are produced.

particle motion

