# Lesson 1

**ANSWER KEYS** 

### Figures & Reading Checks

#### Dancing In The Crowd

Figure 3 People at a packed concert don't move very far, but if they're having fun, they're not standing still either! These people dancing in place are a lot like particles vibrating in a solid.

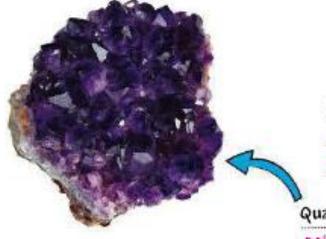
SEP Communicate Information Think about the motion of the particles in a solid and come up with your own way of describing them.

They would be packed closely together and bouncing in place, like a box full of vibrating cell phones.

#### Comparing Solids

Figure 4 Determine Differences

Write down the differences that you notice in shape, structure, and texture between the quartz and the eraser.





material that rubs off on other materials

Quartz Sample: hard, angular, pointy crystal

## Figures & Reading Checks



### Spilled Liquid

Figure 6 When the water spilled, what changed: its shape or its volume?

Its shape changed.

### Figures & Reading Checks

READING CHECK Write Informative Texts Would honey be considered more viscous or less viscous than cranberry juice? Why? Honey would be more viscous than cranberry juice because it flows more slowly than cranberry juice. Flowing more slowly means it has a higher viscosity.

READING CHECK Determine Central Ideas What are the main differences between gases and liquids?

Liquids have a definite volume, whereas gases do not. Gases expand to fill their containers. Gases have particles that are more spread out and not in constant contact with one another.