

Date: _____

Chapter 5, lesson B: Changing State (5.B.1)

1. What happens when a liquid changes into a solid?

Circle the correct answers.

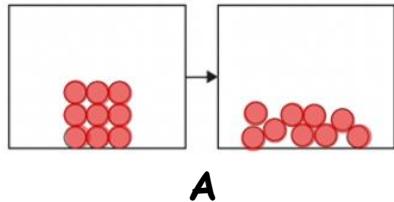
a. The particles **lose** / **gain** heat.

b. The particles move **faster** / **slower**.

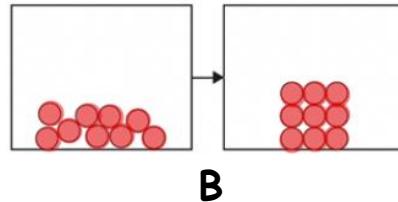
c. The particles move **further apart** / **closer together**.

2. Dylan burns a candle. He notices that the candle wax is **melting**.

a. Which diagram shows how the particles of the candle wax change?



or



b. Complete the sentences to describe what is happening to the particles.

Choose from the following words.

closer - fixed - gain - lose - faster - random - slower - further

Particles of the candle wax _____ heat.

• They vibrate _____ and move _____ apart.

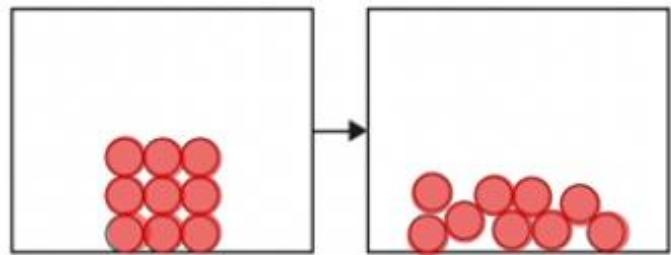
• When they have enough heat, they break away from

their _____ positions and move around one another.

3. Mia draws two particle models.

What does the arrow represent?

Circle the correct answer.



- a. change from a mixture to one substance
- b. change from liquid to solid
- c. change from one substance to a mixture
- d. change from solid to liquid

4. Fill in the Venn diagram correctly using the following.

lose heat	gain heat	0°C	100 °C	solid to liquid	liquid to solid
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