

Date: \_\_\_\_\_

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

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

Circle the correct answers.

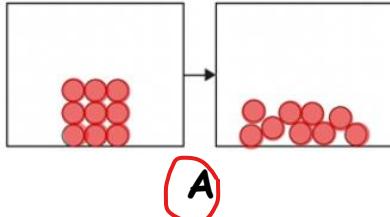
a. The particles lose / gain heat.

b. The particles move faster / slower.

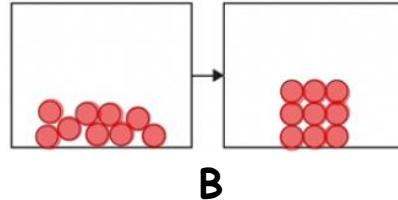
c. The particles move further apart / closer together.

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**

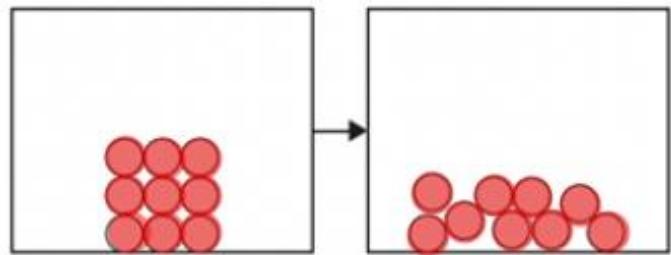
Particles of the candle wax gain heat.

- They vibrate faster and move further apart.
- When they have enough heat, they break away from their fixed 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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