

Date: Answer key

Chapter 5, Lessons A & B Practice Worksheet (5.A & B)

1. Match each process to the correct change of state.

process	change of state
freezing	liquid to solid
melting	solid to liquid
	solid to gas

2. Fill in the blanks with the correct words.

material	particles	matter	substances
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a) Matter is either solid, liquid or gas.

It is made up of particles.

b) Concrete is a material.

It is made of rocks, sand and water.

c) One or more substances make materials.

3. Tick (✓) the correct box.

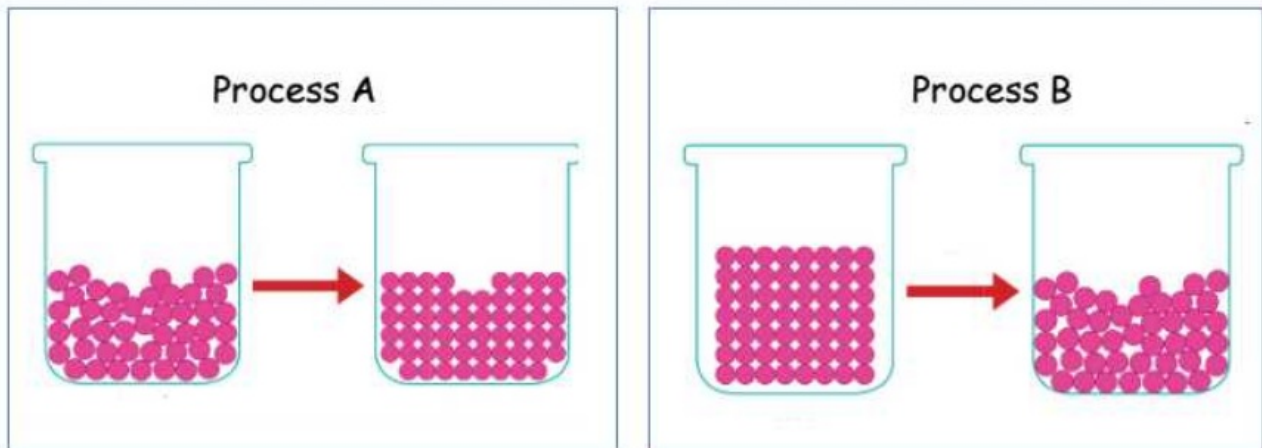
statement	True	False
a) Solid particles do not move in their place.		✓
b) Particles are tiny flat circles that we can see with our eyes.		✓
c) Scrunching a piece of paper is a physical change.	✓	
d) When liquid water is cooled in a beaker, the water particles lose heat.	✓	

4. According to the properties of solids and liquids, write **solid** or **liquid** on the line.

- a) A material flows easily and completely fills any container it is put into.
liquid
- b) A material does not flow easily and has a fixed shape and a fixed volume.
solid
- c) A material has a fixed volume and takes the shape of its container.
liquid

5. The particle models below show two different processes.

Fill in the blanks with the suitable process that is described in the statements below.



a) The particle model shows the process of solidification. A

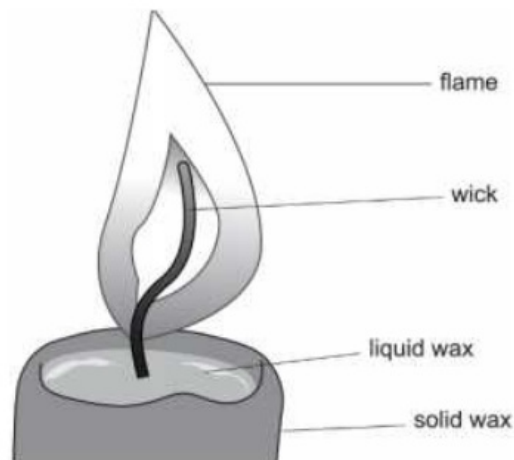
b) The particles are gaining heat, vibrating faster and eventually breaking away from their fixed position. B

c) The particles are losing heat, moving slower and coming closer together. A

d) The particles froze and took the shape of their container. A

e) The particle model shows the process of melting. B

6. A candle is made from a solid called wax.



a. At the top of the candle solid wax changes into liquid wax.

Explain.

When we light up the candle, the solid wax gains heat from the flame, the particles start to vibrate faster until they break away from each other and the solid wax turn into liquid wax.

b. What type of change did the wax undergo?

physical change

7. Salt is a solid but it behaves like a liquid. Explain how.

Salt is made up of many small grains, when poured they behaves like liquid but each grain of salt has its fixed shape.