

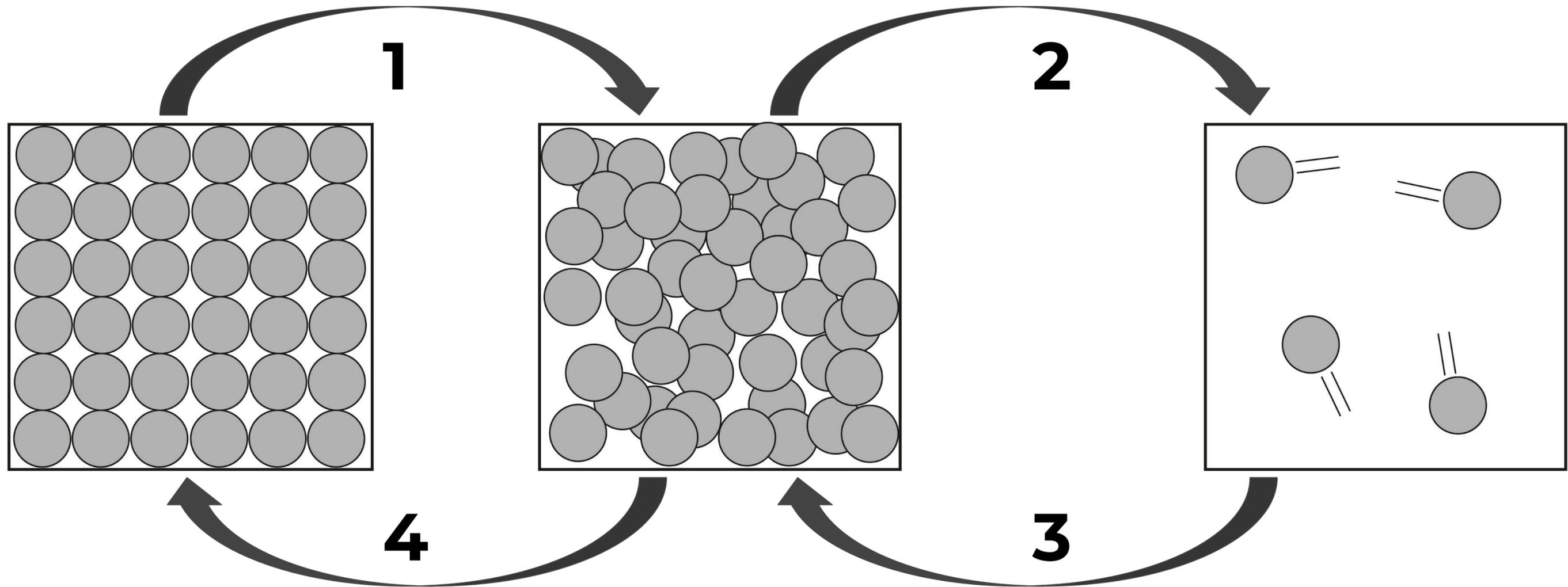
Physics - Key Stage 3 - Matter

# Lesson 2 - Changes of State (Downloadable Student Document)

Mr McKee



# Particle Theory in Solids, Liquids and Gas



# Independent Practice. Questions on Changes of state

Which two changes of state best fits the following descriptions?

- 1) Makes the particles move more?
- 2) Makes the particles closer together?
- 3) Makes the particles move more?
- 4) Makes the particles move further apart?
- 5) Gives the particles less energy?
- 6) Means the particle will at no point arrange as a liquid?



# Summary of Particle Theory & Changes of State

Complete the table using: increase, decrease, formed, broken

	<b>Melting, Evaporating / Boiling (heated)</b>	<b>Freezing, Condensing (cooled)</b>
Internal Energy of Substance		
Movement of particles		
Bonds between particles		



# Questions to check our learning.

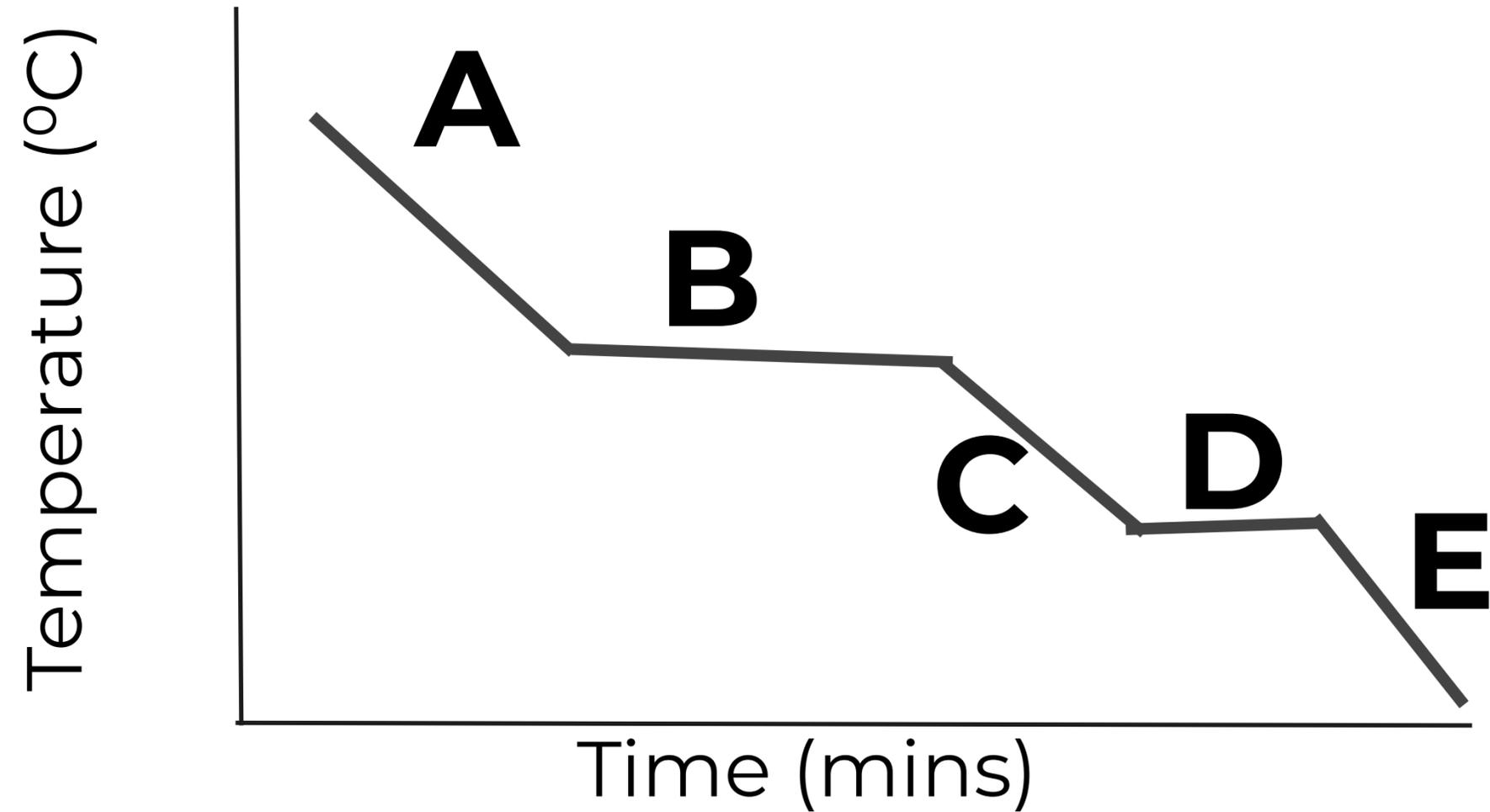
Pause the video to complete these sentences.

Use the words at the bottom.

1. When a substance is heated and it melts or \_\_\_\_\_, its internal energy \_\_\_\_\_. The movement of its particles increases and bonds between particles \_\_\_\_\_.
2. When a substance is cooled and it condenses or \_\_\_\_\_ its internal energy decreases. The movement of its particles \_\_\_\_\_ and bonds \_\_\_\_\_ between particles.



# Cooling Curves.



Liquid cooling

Freezing =

Gas cooling =

Condensing =

Solid cooling =

