

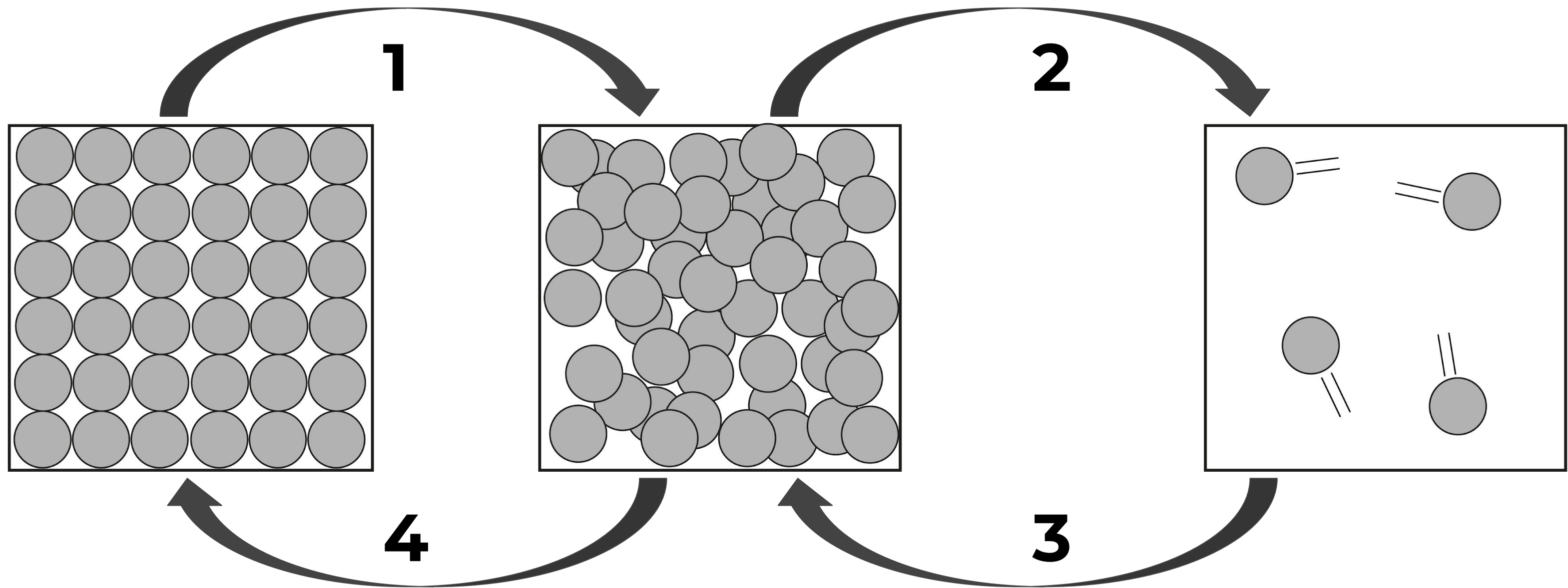
Physics - Key Stage 3 - Matter

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

	Melting, Evaporating / Boiling (heated)	Freezing, Condensing (cooled)
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 =

