

Physics - Key Stage 3 Matter

Review 1

Miss Todd



Independent practise

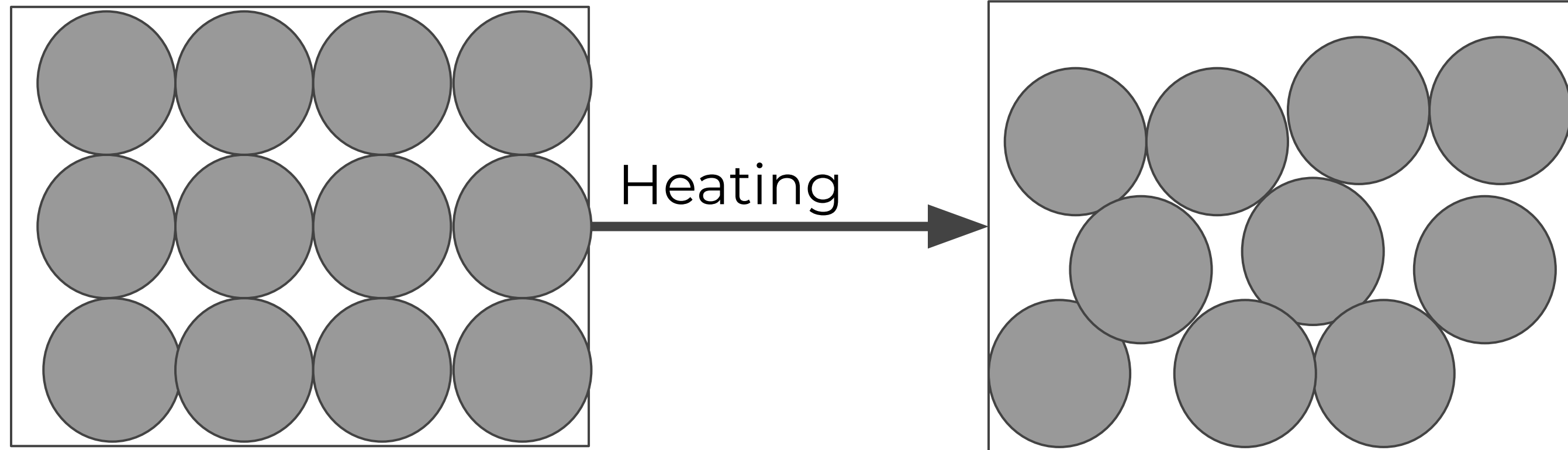
Turn each of these questions into a revision card.

Write the question on one side and the answer on the other.

- How are the particles in a liquid arranged?
- Which state of matter is the least dense?
- How do particles in a solid move?



Independent practise



Source: Matt McKee, Oak National

1. Explain, using the idea of particles, how increasing temperature makes a solid melt.



Fill in the gaps:

The density of water at 25°C is 0.997 g/cm³

The density of oil is 0.93 g/cm³

Oil _____ in water because its _____ than water.



Independent practise

Calculate the density of these materials, give your answer to 1 d.p.

Material	Mass (g)	Volume (cm³)	Density (g/cm³)
Bricks	750	100	
Silver	800	100	
Water	100	100	

$$\text{Density} = \text{mass} \div \text{volume}$$



Independent practise

1. What is the definition of diffusion?
2. What two factors affect the rate of diffusion?
3. Why does increasing temperature increase rate of diffusion?
4. What is the equation for calculating density?

