

**MINISTRY OF EDUCATION, HERITAGE AND ARTS**  
**YEAR 11 CHEMISTRY**  
**REVISION WORKSHEET 2**

**Write the answers to the following questions in your exercise/activity books.**

1. The particle model of matter states that particles are in constant motion. But the particles in a solid always stay in the same place.
  - i. Describe how particles in a solid move. **(1 mark)**
  - ii. Explain how the motion of particles change when the temperature of a solid increases. **(2 marks)**
2. Using the particle model theory, explain why warm liquids evaporate more quickly than cold liquids. **(2 marks)**
3. Which of the following substances is commonly observed in all three states of matter?  
A. Water                      B. Iron                      C. Petrol                      D. Oxygen  
**(1 mark)**
4. Which of the following statements best describes the behaviour of the particles in a liquid?  
A. The particles are far apart and free to move.  
B. The particles are close together and able to move.  
C. The particles are far apart and vibrating in one place.  
D. The particles are close together and vibrating in one place.  
**(1 mark)**
5. A teacher asked a student to measure 100 g of kerosene which has a density of  $0.78 \text{ g mL}^{-1}$ . Calculate the volume of kerosene that is required to measure 100 g of kerosene. **(2 marks)**
6. A rock which has a mass of 325 g was placed in water and it displaced 34.9 mL of water. Calculate the density of the rock. **(2 marks)**
7. When the temperature of a liquid increases, the density
  - A. increases.
  - B. remains the same.
  - C. decreases.
  - D. depends on the solute.**(1 mark)**

**The End**