



St. Ninian's High School
Science Department



S1 Chemistry
Matter Homework 1 (12 Marks)

1. A solid
 - A has a fixed shape and a fixed volume.
 - B does not have a fixed shape but has a fixed volume.
 - C has a fixed shape but does not have a fixed volume.
 - D does not have a fixed shape or fixed volume. **1 mark**

2. Which is true for particles in a liquid?
 - A They are arranged in rows.
 - B They are close together.
 - C They move very fast.
 - D They are smaller than particles in a solid. **1 mark**

3. Which statement is true for a gas?
 - A It has no mass.
 - B It has a fixed shape.
 - C It has a fixed volume.
 - D Its particles move very fast. **1 mark**

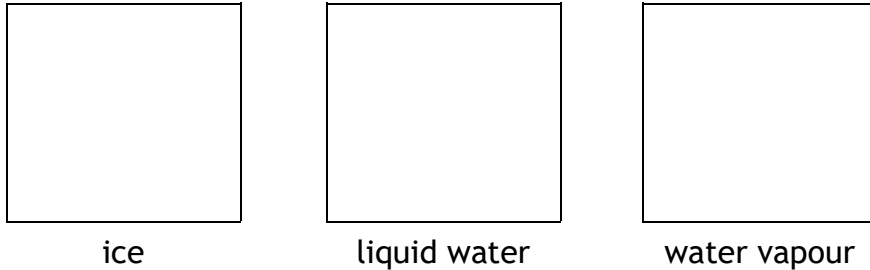
4. Explain why gases can be compressed but solids and liquids cannot. **2 marks**

5. (a) The Bunsen Burner has 2 different flames. State which flame is used when the Bunsen Burner is being used to heat/burn something. **1 mark**

- (b) Name one safety precaution that must be taken when using the Bunsen Burner. **1 mark**

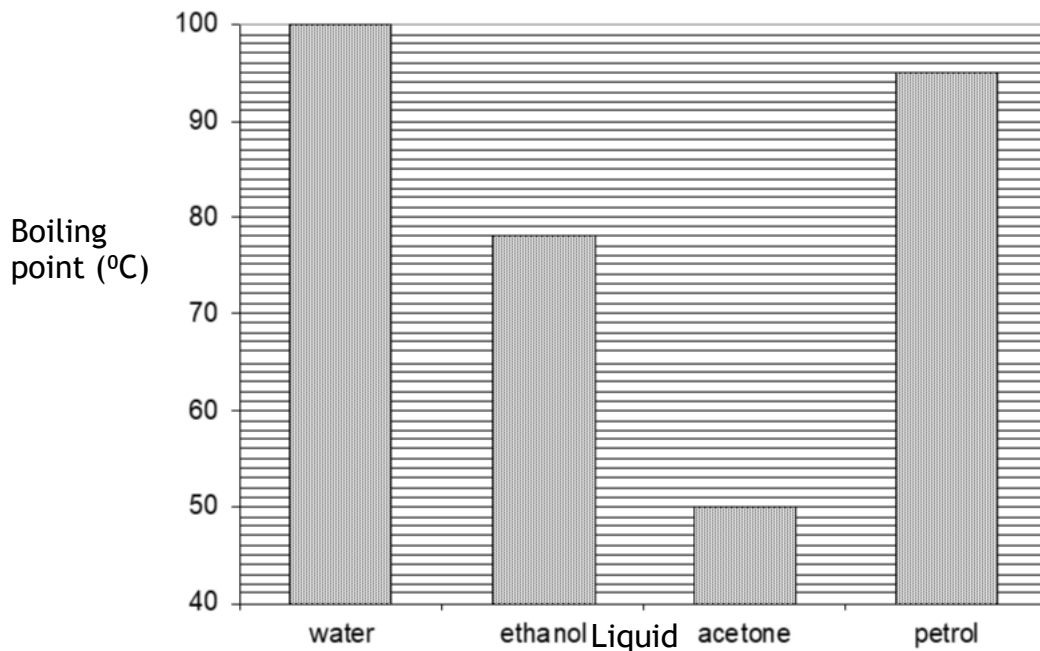
6. An ice cube is left on a saucer in a warm room. It slowly melts. After a few hours no trace of water is left.

Draw particle diagrams to show how the water molecules are arranged in the ice, the liquid water and the water vapour.



3 marks

7. The bar chart shows information about four different liquids and their boiling points.



Present the information from the bar chart above in the form of a table. You should include two headings.

2 marks