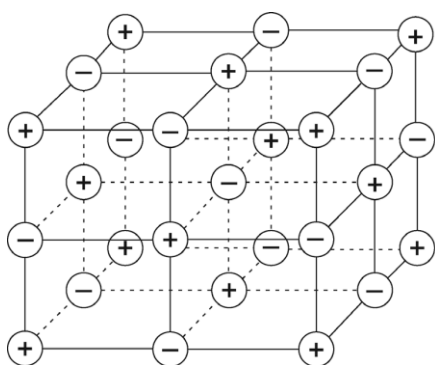


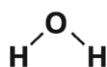
GCSE Chemistry A (Gateway Science)
J248/03 C1-C3 and C7 Higher (Higher Tier)

Question Set 30

1 Look at the diagrams of sodium chloride and water.



sodium chloride



water

- (a) Sodium chloride has a melting point of 801°C.
Use the diagram of sodium chloride to explain why. [2]
- (b) Water has a low melting point and boiling point.
Explain why. [2]
- (c) Magnesium oxide has a similar structure to sodium chloride.
Draw 'dot and cross' diagrams to show the ionic bonding in magnesium oxide.
 - Include the charges on the ions.
 - The electronic structure of magnesium is 2.8.2.
 - The electronic structure of oxygen is 2.6. [3]

Total Marks for Question Set 30: 7

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