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GCSE Chemistry C3- AQA

Structure and Bonding Assignment -1

Assignment Questions

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C3: Structure and Bonding Assignment -1

Q1: Using particle theory, suggest how temperature and pressure affect the density of fixed mass of gas.

Q2: Why does temperature stop rising at a solid's melting point, use the heating curve of a solid to give the reason.

Q3: What are the limitations of the simple particle model of states of matter.

Q4: Write down the electronic structure of ions of Aluminium, Al and Oxygen, O.

Q5: Explain why calcium oxide is CaO but calcium chloride is CaCl₂.

Q6: Explain why ionic compounds have high melting points.

Q7: Why do ionic compounds conduct electricity when they are molten or dissolved in a liquid.

Q8: Why do metal atoms form positively charged ions and non-metal atoms form negatively charged ions.