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| **What will we be learning?**  **GCSE Unit:**  C2- Bonding and Structure | **Why this? Why now?**  **GCSE Course:**  Trilogy Chemistry  **What other GCSE Science units does this unit relate to?**  Atomic Structure  Energy Changes  Rate and extent of chemical change | **Key Words:**  Matter  Particle  Melting and boiling point  Aqueous  Ionic bond  Ions and atoms  Electrostatic  Molten  Covalent bonds  Intermolecular  Diamond  Graphite, graphene  Delocalised electrons  Malleable, ductile and alloy  Fullerene  Nanoparticle  Fine particle  Surface area to volume ratio  Solid, liquid, gas |
| **What will we learn?**  **Useful equations/formulae/maths skills for this unit:**  Crossover method for working out ionic formula  **Misconceptions in this topic**  Metallic bonding  Covalent bonding  Ionic bonding | |
| **What opportunities are there for wider study?**  **If you are interested in this unit, what careers does it relate to?**  Industrial chemistry Research chemist Chemical engineer  Analytical chemistry Materials chemist  Drug manufacturing  **Collins Revision guide relevant pages for this unit:**  Higher and Foundation - Page 94- 100 | |
| **How will I be assessed?**  Deep Marking Task Title for this unit: DMT – bonding and structure poster | |