

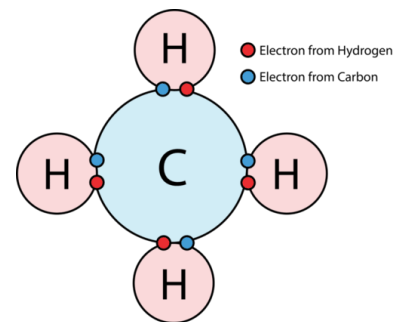
Triple Unit Overview – Bonding **Target grade for test:.....**

You will learn about:

- The three types of chemical bonds
- The structure and bonding of Carbon

You will be able to:

- Research uses and properties of nanoparticles



<p>Key learning points</p> <table border="1"> <tr><td>Ionic bonding and compounds</td><td></td></tr> <tr><td>Properties of ionic bonding and simple molecules</td><td></td></tr> <tr><td>Covalent bonding</td><td></td></tr> <tr><td>Metallic bonding and alloys</td><td></td></tr> <tr><td>Particle theory and the three states of matter</td><td></td></tr> <tr><td>Covalent structures (giant and simple)</td><td></td></tr> <tr><td>Polymers and their properties</td><td></td></tr> <tr><td>Graphene and Fullerenes</td><td></td></tr> <tr><td>Nanoparticles</td><td></td></tr> </table>					Ionic bonding and compounds		Properties of ionic bonding and simple molecules		Covalent bonding		Metallic bonding and alloys		Particle theory and the three states of matter		Covalent structures (giant and simple)		Polymers and their properties		Graphene and Fullerenes		Nanoparticles		<p>Key Words</p> <p>Ions, metal, non metal, electrostatic forces, high melting and boiling point, low melting and boiling point, sharing, transfer, electrons, intermolecular forces, delocalised electron, polymers, plastics, diamond, graphite, conductor, electricity.</p>	
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<p>Links to other subjects:</p> <p>SMSC: Understand and appreciate the impacts of human development on the environment and describe the effects that this is having.</p> <p>Literacy: Describe observations in practical work. Explain the development of periodic table and the structure of the atom. Describe how reactivity and trends are linked to position in the periodic table.</p> <p>Numeracy: Students should be able to translate data between diagrammatic and numeric forms. Visualise and represent 2D and 3D forms including two dimensional representations of 3D objects.</p>																								
Research	Note-making	Group work & discussion	Memorisation	Precision & accuracy	Independence	Reflection																		