

		compound from a given model or diagram that shows the ions in the structure.		Watch the Ionic compounds lesson https://classroom.thenational.academy/lessons/properties-of-ionic-compounds-6hj66c
01/03/21		<p><u>Students should be able to:</u></p> <p>Draw dot and cross diagrams.</p> <p>Represent the covalent bonds in small molecules, in the repeating units of polymers and in part of giant covalent structures, using a line to represent a single bond.</p> <p>Describe the limitations of using dot and cross, ball and stick, two and three-dimensional diagrams.</p>	<p>Read slides 17-19 on the home learning pack and make notes on the key points.</p> <p>Answer exam questions on slide 20 -21</p> <p>Mark your answers using slide 22-23</p>	<p>Watch the following video on how to draw dot and cross diagrams https://www.youtube.com/watch?v=IV404giwIE0</p> <p>Then answer the following exam questions https://yejyruy.exampro.net/</p>

		<p>Deduce the molecular formula of a substance from a given model or diagram.</p>		
8/03/21		<p>Describe that metals consist of giant structures of atoms arranged in a regular pattern.</p> <p>Draw a diagram to show the bonding in metals</p>	<p>Read slide 24-25 and make notes on the key points.</p> <p>Answer exam question on slide 26</p> <p>Mark your answers using slide 27.</p>	<p>Lesson on Metallic bonding https://classroom.thenational.academy/lessons/metallic-bonding-cdjk0e</p> <p>Then complete the following exam question: https://ciaolyj.exampro.net/</p>
08/03/21	How is bonding and structure related to the properties of substances?	<p><u>Students should be able to:</u></p> <p>Draw diagrams to represent solids, liquids and gases.</p> <p>Explain the different temperatures at which changes of state occur in terms of energy</p>	<p>Read slides 29-33</p> <p>Complete the exam questions on slide 34-35</p> <p>Mark your answers using slide 36</p>	<p>First watch this video on GCSE POD https://members.gcsepod.com/shared/podcasts/title/10955/66852</p> <p>Then watch this lesson on Solids, liquids and gases. https://classroom.thenational.academy/lessons/solids-liquids-and-gases-cmr36d</p>

		<p>transfers and types of bonding.</p> <p>Explain the limitations of the particle theory in relation to changes of state. (HT)</p>		
15/03/21		<p>Describe the properties of ionic compounds</p> <p>Explain why ionic compounds have high melting and boiling points with reference to their structure.</p> <p>Explain why certain states of ionic compounds can conduct electricity</p> <p>Describe the properties of substances that consist of small covalent molecules.</p> <p>Explain the properties of substances that consist of small covalent molecules.</p>	<p>Read through slides 38 to 41 and make notes on the key points</p> <p>You need to complete the following:</p> <ol style="list-style-type: none"> 1) What is an ionic bond? 2) What does an Ionic bond form between? 3) Describe the bonding in NaCl? <p>(in your response use slide 38-41)</p>	<p>Lesson on Ionic compounds https://classroom.thenational.academy/lessons/properties-of-ionic-compounds-6hj66c.</p> <p>Then watch the following video from GCSE POD: https://members.gcsepod.com/shared/podcasts/title/10954/66756</p> <p>Simple covalent molecules lesson https://classroom.thenational.academy/lessons/simple-covalent-molecules-70v66e</p>

		<p>Describe properties of polymers (melting point)</p> <p>Explain these using the structure of polymers</p> <p>Describe the bonding in giant covalent structures</p> <p>Describe and explain the properties of giant covalent structures</p>	<p>Read slides 42 to 47 and make notes on the key points.</p> <p>You need to complete the following</p> <ol style="list-style-type: none"> 1) Describe and explain why diamond has a high melting point and boiling point? 2) Can you describe the difference between a metal and an alloy? 3) Explain why metals conduct electricity <p>(in your response use slide 42-47)</p>	<p>Polymers lesson https://classroom.thenational.academy/lessons/polymers-6rvkgr</p> <p>Giant covalent structures lesson https://classroom.thenational.academy/lessons/the-giant-covalent-structures-c5h3cc</p>
22/03/21		<p>Explain the properties of diamond in terms of its structure and bonding.</p> <p>Explain the properties of graphite in terms of</p>	<p>Read slide 51-52 and make notes on the key points Complete exam question on slide 53. Mark your answers using slide 54.</p> <p>Read slides 55-59 and make notes on the key points.</p>	<p>First watch the following video on GCSE POD https://members.gcsepod.com/shared/podcasts/title/10956/66768</p> <p>Then watch this lesson on Giant covalent structures https://classroom.thenational.academy/lessons/the-giant-covalent-structures-c5h3cc</p>

		<p>its structure and bonding.</p> <p>Know that graphite is similar to metals in that it has delocalised electrons.</p> <p>Describe the structure of graphene</p> <p>Describe simply the structure of fullerenes and carbon nanotubes</p> <p>Give uses of fullerenes and nanotubes and relate these to their properties</p>	<p>Complete exam questions on 60, 61 & 62.</p> <p>Mark your answers using slide 63.</p> <p>Read slides 65-69 and make notes on the key points.</p> <p>Complete exam questions on 70-71</p> <p>Mark your answers using slide 72-73</p>	<p>Graphite lesson: https://classroom.thenational.academy/lessons/the-giant-covalent-structures-c5h3cc</p> <p>Complete the exam question using the link below: https://guguoyh.exampro.net/</p> <p>Graphene, fullerenes and carbon nanotubes lesson https://classroom.thenational.academy/lessons/giant-covalent-structures-graphene-68rp6e</p> <p>Complete the exam questions using the links below: https://gonooaz.exampro.net/ https://zayukit.exampro.net/</p>
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