Edexcel iGCSE Chemistry 4CH0 Learning Plan

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| **Section A4: Structures** | | |
| Specification | Resources | Assessment |
| 1.6 understand the differences between  elements, compounds and mixtures  1.29 understand ionic bonding as a strong electrostatic attraction between oppositely charged ions.  1.30 understand that ionic compounds have high melting points and boiling points because of strong electrostatic forces between oppositely charged ions.  1.31 describe the formation of a covalent bond by the sharing of a pair of electrons between two atoms.  1.32 understand covalent bonding as a strong attraction between the bonding pair of electrons and the nuclei of the atoms involved in the bond.  1.33 explain, using dot and cross diagrams, the formation of covalent compounds by electron sharing for the following substances:  Hydrogen, chlorine, hydrogen chloride, water, methane, ammonia, oxygen, nitrogen, carbon dioxide, ethane, ethene.  1.37 describe a metal as a giant structure of positive ions surrounded by a sea of delocalised electrons. | Video: Section 1 Lesson 1 - 12:05 🡪 14.25  Section 1 Lesson 5 - 00:40 🡪 02:33  Section 1 Lesson 4 (3.2) - 16:25 🡪 end.  Powerpoint: Section 1 Lesson 1 – Slides 42🡪 47.  Section 1 Lesson 4 – Slides 4🡪7  Section A3 – Bonding: Slides 66 🡪67; Slides 74 🡪 80  Textbook:  Page 23 – Giant structures.  Page 29 – Simple molecular structures.  Page 30 – Elements, compounds and mixtures  Page 32 – End of Chapter check list. | Textbook  Page 32 – End of Chapter questions.  Answers to textbook Ch4 questions - pdf  Talking paper video – Edexcel Chemistry Section A4 Structures  Section A4 Question – Structures. (pdf)  Section A4 Question – mark scheme - Structures. (pdf) |

Videos – www.igcsesciencecourses.com

Textbook Ref: Edexcel International GCSE Chemistry Student Book - Clark

DVD Video Clips – see resource DVD in textbook.

<http://www.chemguide.co.uk/igcse/chapters/chapter4.html>