Edexcel iGCSE Chemistry 4CH0 Learning Plan

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| **Section A3: Bonding** | | |
| Specification | Resources | Assessment |
| 1.24 describe the formation of ions by the gain or loss of electrons.  1.25 understand oxidation as the loss of electrons and reduction as the gain of electrons.  1.26 recall the charges of common ions.  1.27 deduce the charge of an ion from the electronic configuration of the atom from which the ion is formed.  1.28 explain using dot and cross diagrams, the formation of ionic compounds by electron transfer, limited to combinations of elements from Groups 1,2,3 and 5,6,7  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. | Video: Section 1 – Lesson 4 – Reacting Masses, Ionic and Covalent Bonding  Powerpoint: Section A3 –Bonding (from slide 42 to end)  Textbook:  Page 13 - Covalent bonding  Page 17 - Ionic (electrovalent) bonding  Page 20 - Metallic bonding  Page 21 - Intermolecular forces  Page 22 Chapter check list | Textbook  Page 22 End of Chapter Questions.  Talking paper – Edexcel Chemistry Section A3 - Bonding  Section A3 Question – Bonding. (pdf)  Section A3 Question – mark scheme. (pdf) |

Videos – www.igcsesciencecourses.com

Textbook Ref: Edexcel International GCSE Chemistry Student Book - Clark

DVD Video Clips – see resource DVD in textbook.