Edexcel iGCSE Chemistry 4CH0 Learning Plan

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| **Section B14: Introducing Energy Changes in Reactions** |
| Specification | Resources | Assessment |
| 4.10 understand that chemical reactions in which heat energy is given out are described as exothermic and those in which heat energy is taken in are endothermic 4.11 describe simple calorimetry experiments for reactions such as combustion, displacement, dissolving and neutralisation in which heat energy changes can be calculated from measured temperature changes 4.12 calculate molar enthalpy change from heat energy change 4.13 understand the use of ΔH to represent enthalpy change for exothermic and endothermic reactions 4.14 represent exothermic and endothermic reactions on a simple energy level diagram 4.15 understand that the breaking of bonds is endothermic and that the making of bonds is exothermic 4.16 use average bond energies to calculate the enthalpy change during a simple chemical reaction. | Video: Section 4 – Lesson 2 – Energy in ReactionsPowerpoint: Section 4 Lesson 2 EnergeticsTextbook: Chapter 14 – Introducing Energy Changes in ReactionsPage 120 – Exothermic and endothermic changesPage 120 – Exothermic reactionsPage 122 – Endothermic reactionsPage 124 – End of chapter checklistEdexcel iGCSE Chemistry Student Checklist Section B14.doc | TextbookPage 124 – Questions 1 to 4Textbook answers - pdfTalking paper – Edexcel Chemistry Section B14 – Introducing Energy ChangesSection B14 Question –. (pdf)Section B14 Question – mark scheme. (pdf) |

**Jim Clark video clips:** <http://www.chemguide.co.uk/igcse/chapters/chapter14.html>

Videos – www.igcsesciencecourses.com

Textbook Ref: Edexcel International GCSE Chemistry Student Book - Clark

DVD Video Clips – see resource DVD in textbook.