Edexcel iGCSE Chemistry 4CH0 Learning Plan

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| **Section A6: Rates of Reaction** | | |
| Specification | Resources | Assessment |
| 4.17 describe experiments to investigate the effects of changes in surface area of a solid, concentration of solutions, temperature and the use of a catalyst on the rate of a reaction  4.18 describe the effects of changes in surface area of a solid, concentration of solutions, pressure of gases, temperature and the use of a catalyst on the rate of a reaction  4.19 understand the term activation energy and represent it on a reaction profile  4.20 explain the effects of changes in surface area of a solid, concentration of solutions, pressure of gases and temperature on the rate of a reaction in terms of particle collision theory  4.21 explain that a catalyst speeds up a reaction by providing an alternative pathway with lower activation energy. | Video: Section 4 Lesson 3  Powerpoint: Section 4 Lesson 3  Textbook:  Page 41 - Rates of Reaction  Page 43 - Changing the conditions in the experiment.  Page 44 - Changing the concentration  Page 45 - Changing the temperature  Page 46 - Catalysts  Page 51 - Chapter Check List | Textbook  Page 51 End of Chapter Questions  Pages 52-53 End of section A Questions.  Answers to textbook Ch 6 questions – pdf  Answers to textbook end of Section A questions - pdf  Talking paper video – Edexcel Chemistry Section A6 rate of Reaction  Section A6 Question – Rates of Reaction –. (pdf)  Section A6 Question – mark scheme – Rates of Reaction. (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/chapter6.html>