Edexcel International GCSE Chemistry 4CH1 Learning Plan

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| **Unit: 1. Principles of Chemistry** | | **Chapter: 1. States of Matter** | | **Hours: 4** |
| Content coverage | Learning outcomes | Resources | Assessment | |
| **Section 1: Principles of chemistry**  (a) States of matter | Students will be assessed on their ability to:  1.1 understand the three states of matter in terms of the arrangement, movement and energy of the particles  1.2 understand the interconversions between the three states of matter in terms of:   * the names of the interconversions * how they are achieved * the changes in arrangement, movement and energy of the particles   1.3 understand how the results of experiments involving the dilution of coloured solutions and diffusion of gases can be explained.  1.4 know what is meant by the terms:   * solvent * solute * solution * saturated solution   **1.5C know what is meant by the term solubility in the units g per 100 g of solvent**  **1.6C understand how to plot and interpret solubility curves**  ***1.7C practical: investigate the solubility of a solid in water at a specific temperature.*** | Video: Section 1 – Lesson 1 – States of Matter and Atomic Structure (from beginning to 18.55)  Powerpoint: Chemistry - Section 1 – Lesson 1 (to slide 54)  Textbook pages:  Page 3 – States of Matter  Page 4 – Interconversions between the three states of matter  Page 6 – Working out the physical state of a substance at a particular temperature  Page 6 – Diffusion  Page 8 – The solubility of solids  Page 10 – Solubility curves | Pages 12 – 13 Qs (1) to (6)  Chapter 1 Answers to textbook questions  Unit 1-1 States of Matter exam question - pdf  Unit 1-1 States of Matter exam question mark scheme – pdf  Section A1 - Talking paper video | |

Videos – [www.igcsesciencecourses.com](http://www.igcsesciencecourses.com)

Textbook Ref: Edexcel International GCSE (9-1) Chemistry Student Book - Pearson (Clark, Owen and Yu)