Edexcel International GCSE Chemistry 4CH1 Learning Plan

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|  **Unit: 2. Inorganic Chemistry** | **Chapter: 13. Gases in the Atmosphere** | **Hours: 4** |
| Content coverage | Learning outcomes | Resources | Assessment |
| **Section 2: Inorganic chemistry**(c) Gases in the atmosphere | 2.9 know the approximate percentages by volume of the four most abundant gases in dry air2.10 understand how to determine the percentage by volume of oxygen in air using experiments involving the reactions of metals (e.g. iron) and non-metals (e.g. phosphorus) with air2.11 describe the combustion of elements in oxygen, including magnesium, hydrogen and sulphur2.14 *practical: determine the approximate percentage by volume of oxygen in air using a metal or a non-metal.*2.12 describe the formation of carbon dioxide from the thermal decomposition of metal carbonates, including copper(II) carbonate2.13 know that carbon dioxide is a greenhouse gas and that increasing amounts in the atmosphere may contribute to climate change. | Video: Section 2 Lesson 2; 15.56 🡪 end of videoSection 2 Lesson 3; start 🡪 10.53Powerpoint: Section 2 Lesson 2: slide 50 🡪 end. Section 2 Lesson 3: start 🡪 slide 36Textbook pages:Page 137 – The composition of the airPage 140 – The combustion of elements in oxygenPage 141 – The properties of oxidesPage 142 – Carbon dioxide and global warming: the Greenhouse Effect | Page 144 Qs (1) to (4)Chapter 13 Answers to textbook questionsUnit 2-13 Gases in the Atmosphere exam question - pdfUnit 2-13 Gases in the Atmosphere exam question mark scheme – pdfSection B7 - 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)