Edexcel International GCSE Biology 4BI1 Learning Plan

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| **Unit: 2. Animal Physiology** | | **Chapter: 3. Breathing and Gas Exchange** | | **Hours: 6** |
| Content coverage | Learning outcomes | Resources | Assessment | |
| **Section 2: Structures and functions in living organisms**  **g)** Gas exchange | **2.46** describe the structure of the thorax, including the ribs, intercostal muscles, diaphragm, trachea, bronchi, bronchioles, alveoli and pleural membranes  **2.48** explain how alveoli are adapted for gas exchange by diffusion between air in the lungs and blood in capillaries.  **2.47** understand the role of the intercostal muscles and the diaphragm in ventilation  **2.50** practical: investigate breathing in humans, including the release of carbon dioxide and the effect of exercise.  **2.49** understand the biological consequences of smoking in relation to the lungs and the  circulatory system, including coronary heart disease. | Video: Biology Section 2 Lesson 4 – Respiration and Gaseous Exchange. 08:53 to 15.54  Powerpoint: Biology Section 2 – Respiration and Gaseous Exchange – Lesson 4 – slides 32 to 58  Textbook pages:  39 – Respiration and Breathing  39 – The structure of the gas exchange system  41 – Ventilation of the lungs  42 – Gas exchange in the alveoli  45 – The effects of smoking | Page 49 – 51 Qs 1 to 11  Textbook Answers (PDF)  Chapter 3 - exam question - pdf  Chapter 3 - exam question mark scheme – pdf  Chapter 3 - Talking paper video | |

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

Textbook Ref: Edexcel International GCSE (9-1) Biology Student Book - Pearson (Bradfield and Potter)