Edexcel iGCSE Biology 4BI0 Learning Plan

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| **Section B3: Breathing and Gas Exchange** | | |
| Specification | Resources | Assessment |
| 2.44 describe the structure of the thorax, including the ribs, intercostal muscles, diaphragm, trachea, bronchi, bronchioles, alveoli and pleural membranes  2.45 understand the role of the intercostal muscles and the diaphragm in ventilation 2.46 explain how alveoli are adapted for gas exchange by diffusion between air in the lungs and blood in capillaries  2.47 understand the biological consequences of smoking in relation to the lungs and the circulatory system, including coronary heart disease  2.48 describe experiments to investigate the effect of exercise on breathing in humans. | 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:  Page 26 The structure of the gas exchange system  Page 27 Ventilation of the lungs  Page 29 Gas exchange in the alveoli  Page 30 The effects of smoking on the lungs and associated tissues  Page 35 Chapter Checklist  Edexcel iGCSE Biology Checklist Section B3.doc  DVD Revision check list  <http://biology-igcse.weebly.com/gaseous-exchange.html>  <http://biology-igcse.weebly.com/inspired-expired-air.html>  <http://biology-igcse.weebly.com/tobacco-smoke.html> | Textbook  Page 35-36 Questions 1 to 7  Chapter 3 Textbook Answers - pdf  DVD Multiple choice test  Section - exam question - pdf  Section - exam question mark scheme – pdf  Talking paper video – Section B3 Breathing and Gaseous Exchange |

Videos – www.igcsesciencecourses.com

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

DVD Video Clips – see resource DVD in textbook.