Edexcel International GCSE Biology 4BI1 Learning Plan

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| **Unit: 2. Animal Physiology** | | **Chapter: 8. Homeostasis and Excretion** | | **Hours: 7** |
| Content coverage | Learning outcomes | Resources | Assessment | |
| **Section 2: Structures and functions in living organisms**  i) Excretion | **2.81** understand that homeostasis is the maintenance of a constant internal environment, and that body water content and body temperature are both examples of homeostasis  **2.93** describe the role of the skin in temperature regulation, with reference to sweating, vasoconstriction and vasodilation  **2.71** know the excretory products of the lungs, kidneys and skin (organs of excretion)  **2.72B understand how the kidney carries out its roles of excretion and osmoregulation**  **2.73B describe the structure of the urinary system, including the kidneys, ureters, bladder and urethra.**  **2.74B describe the structure of a nephron, including the Bowman’s capsule and glomerulus, convoluted tubules, loop of Henle and collecting duct**  **2.75B describe ultrafiltration in the Bowman’s capsule and the composition of the glomerular filtrate**  **2.76B understand how water is reabsorbed into the blood from the collecting duct**  **2.77B understand why selective reabsorption of glucose occurs at the proximal convoluted tubule.**  **2.78B describe the role of ADH in regulating the water content of the blood**  **2.79B understand that urine contains water, urea and ions.** | Video: Biology Section 2 Lesson 6 - Excretion  Powerpoint: Biology Secction 2 Lesson 6 - Excretion  Textbook pages:  104 – Homeostasis  105 – Urine  106 – The urinary system  108 – Structure of the nephron  111 – Control of the body’s water content  112 – Control of body temperature | Page 115 – 117 Qs. 1 to 10  Textbook Answers (PDF)  Chapter 8 - exam question - pdf  Chapter 8 - exam question mark scheme – pdf  Chapter 8 - 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)