Edexcel International GCSE Biology 4BI1 Learning Plan

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| **Unit: 2. Animal Physiology** | | **Chapter: 6. Coordination** | | **Hours: 6** |
| Content coverage | Learning outcomes | Resources | Assessment | |
| **Section 2: Structures and functions in living organisms**  **j)** Coordination and response | **2.80** understand how organisms are able to respond to changes in their environment  **2.82** understand that a co-ordinated response requires a stimulus, a receptor and an effector.  **2.86** describe how nervous and hormonal communication control responses and understand the differences between the two systems  **2.87** understand that the central nervous system consists of the brain and spinal cord and is linked to sense organs by nerves  **2.88** understand that stimulation of receptors in the sense organs sends electrical impulses along nerves into and out of the central nervous system, resulting in rapid responses  **2.89** understand the role of neurotransmitters at synapses  **2.90** describe the structure and functioning of a simple reflex arc illustrated by the withdrawal of a finger from a hot object.  **2.91** describe the structure and function of the eye as a receptor  **2.92** understand the function of the eye in focusing on near and distant objects, and in responding to changes in light intensity. | Video: Biology Section 2 Lesson 8 – Nerves and Senses  Powerpoint: Biology Section 2 Lesson 8 – nerves and Senses  Textbook pages:  84 – Stimulus and response  85 – Receptors  85 – The central nervous system  86 – The structure of neurones  87 – The eye  88 – Forming an image  89 – The iris reflex  90 – The blind spot  90 – Accommodation  91 – Reflex actions  93 – Synapses | Page 94 – 97 Qs 1 to 9  Textbook Answers (PDF)  Chapter 6 - exam question - pdf  Chapter 6 - exam question mark scheme – pdf  Chapter 6 - 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)