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 SensesPowerpoint: Biology Section 2 Lesson 8 – nerves and SensesTextbook pages:84 – Stimulus and response85 – Receptors85 – The central nervous system86 – The structure of neurones87 – The eye88 – Forming an image89 – The iris reflex90 – The blind spot90 – Accommodation91 – Reflex actions93 – Synapses | Page 94 – 97 Qs 1 to 9Textbook Answers (PDF)Chapter 6 - exam question - pdfChapter 6 - exam question mark scheme – pdfChapter 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)