

# Year 10: ASK Yourself!

**Subject: Biology**

**Unit: 5 – Co-ordination and control**

	Launching 1-2	Developing 3-4	Progressing 5-6	Mastering 7-9
 <b>S</b> skills				
	<p>To be able to plan experiments or devise procedures to determine whether caffeine affects your reaction time. To make observations, produce or characterise a substance, test hypotheses, check data or explore phenomena.</p>	<p>Be able to apply a knowledge of a range of techniques, instruments, apparatus, and materials to select those appropriate to the experiment. To be able to draw a table of results and display data in an appropriate form.</p>	<p>To be able interpret observations and other data, including identifying patterns and trends, making inferences and drawing conclusions. Identify strengths and weaknesses in an investigation. To use models to explain how nerve impulses are transmitted across synapses.</p>	<p>Critically evaluate data in terms of accuracy, precision, repeatability and reproducibility and identify potential sources of random and systematic error. Carry out and represent mathematical and statistical analysis to measure reaction time.</p>
 <b>K</b> knowledge				
	<p>To recall that the nervous and endocrine systems are responsible for homeostasis. To describe the components of body control systems and compare nervous and hormonal control. Describe the function of the brain regions. To identify the structure and function of parts of the eye. Describe the role of hormones in the menstrual cycle.</p>	<p>Be able to describe the structure of the nervous system and location of the endocrine glands. Describe how neurones are adapted to their role and the transmission of an impulse in reflex arc. Describe how images are focused on the retina and what causes eye defects. Describe how different methods of contraception work.</p>	<p>Be able to explain how nerve impulses are transmitted across synapses. Explain the role of redistribution of auxins in tropisms. Describe applications of plant hormones. Explain the roles and interactions of hormones in the menstrual cycle.</p>	<p>To be able to explain how negative feedback is involved in homeostasis. To be able to explain how eye defects can be corrected. Evaluate fertility treatments and the use of different methods of contraception.</p>