

Unit	Section	Content
Homeostasis and response	4.5.3 Hormonal Control in Humans	<ul style="list-style-type: none"> <li>-definition of 'hormone'</li> <li>function of the tissues and organs of the endocrine system</li> <li>-identifying position of glands, and the hormones secreted from them</li> <li>-hormones involved in control of blood glucose concentration</li> <li>-Type 1 and Type 2 diabetes</li> <li>-explain how glucagon interacts with insulin in a negative feedback cycle to control blood glucose (sugar) levels in the body.</li> <li>-describe the roles of hormones in human reproduction, including the menstrual cycle</li> <li>-explain the interactions of FSH, oestrogen, LH and progesterone, in the control of the menstrual cycle</li> <li>-explain the use of hormones in modern reproductive technologies to treat infertility.</li> <li>-explain the roles of thyroxine and adrenaline in the body. Thyroxine levels are controlled by negative feedback</li> </ul>
Ecology	4.7.2 Organisation of an ecosystem	<ul style="list-style-type: none"> <li>-interpret food chains and webs</li> <li>-identify producers, consumers, predators and prey from food chains and webs</li> <li>-describe the carbon and water cycles</li> </ul>
	4.7.3 Biodiversity and the effect of human interaction on an ecosystem	<ul style="list-style-type: none"> <li>-Define biodiversity</li> <li>-Describe ways in which pollution can occur, and the impacts of this pollution on biodiversity</li> <li>-Describe ways to manage this pollution</li> <li>-describe some of the biological consequences of global warming.</li> <li>-Describe the things that scientists have introduced to reduce the negative effects of humans on ecosystems and biodiversity.</li> </ul>
	<b>Required Practical 7:</b> measure the population size of a common species in a habitat. Use sampling techniques to investigate the effect of a factor on the distribution of this species	<ul style="list-style-type: none"> <li>-Using transects and quadrats are used by ecologists to determine the distribution and abundance of species in an ecosystem.</li> <li>-Understand the terms mean, mode and median</li> <li>-Calculate arithmetic means</li> </ul>