

High Tunstall College of Science Curriculum Intent

Subject: Biology (Separate) Year: 11

Thread 4—Homeostasis and Response



	Biology Thread 4	Progress		
Topic	Key ideas	R	A	G
Homeostasis and Response	I can describe the roles of the nervous and endocrine system			
	I can describe the role of hormones in the control of blood sugar, and can explain how diabetes is treated			
	I can explain how nitrogen and water levels are maintained			
	I can explain the structure and function of the kidneys, and how kidney disease is treated			
	I can describe the role of hormones in human reproduction			
	I can evaluate the different hormonal and non hormonal forms of contraception			
	I can explain the use of hormones in modern reproductive technologies to treat infertility			
	I can explain the roles of thyroxine and adrenaline in the body			
	I can describe how plant hormones can co-ordinate and control growth and responses to light and gravity			
	I can carry out a required practical to investigate the effect of light on plant shoots			
	I can describe the effects of some plant hormones and the different ways people use plant hormones to control plant growth.			

Lesson	Learning Focus	Assessment	Key Words
1	The nervous and endocrine system	Self assessment of confidence	Hormone, nervous system
2	Controlling blood glucose	Completion of exam questions	Insulin, hormone, glucose, pancreas
3	Diabetes	Completion of exam questions	Insulin, diabetes, pancreas
4	Maintaining nitrogen and water	Completion of knowledge checks	Excretion, water, kidneys
5	The kidneys and ADH	Completion of differentiated tasks	Kidneys, ADH, Urea
6	Treating kidney disease	Completion of exam questions	Kidney, transplant, dialysis
7	Hormones in human reproduction	Exam questions	Hormones, Ovulation
8	Contraception	Exam questions and thinking tasks	Contraception
9	Hormones and infertility	Summative questions	Fertility, Fertilisation
10	Negative feedback	Summative questions	Feedback
11	Control and coordination	Summative questions	Hormones, growth, auxin, phototropism
12	Seed growth (RPA)	Practical activity	
13	Use of plant hormones		Auxins