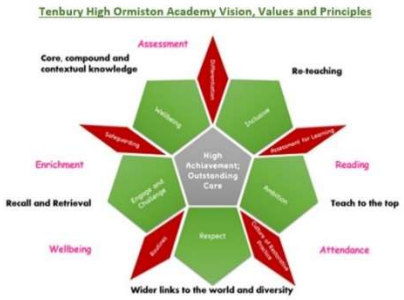
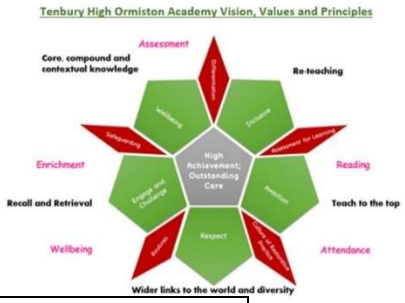
TENBURY HIGH
ORMISTON ACADEMY



Curriculum Overview for Biology
Year 11

Half Term 1 and 2:
 	
Homeostasis and response
 	
Substantive Knowledge:
 	
• Homeostasis system components
• The Nervous System
  • Central Nervous system
  • Triple: The brain
  • Triple: The Eye and defects of the eye
  • Reflex arcs
  • Body temperature control
 	
• The Endocrine System
  • Parts of the Endocrine system
  • Hormones
  • Blood glucose control
  • Triple: Water control and ADH
  • Reproductive hormones
  • Menstrual cycle
  • Use of reproductive hormones
  • Triple: Plant hormones and their uses
 	
Disciplinary Knowledge:
• Reaction times investigation: variables, methods, collecting data, risk, evaluation
• Triple: Plant hormone investigation: variables, methods, collecting data, risk, evaluation
• Measuring time (scales)
• Ethics in science (controlling fertility, organ transplants)
		Skim and Scan of source information
		Decoding terms
		Etymology of key terms

		Embryo, genotype, genetic engineering, enzyme, cloning, surrogate, fossil, extinction, resistance, classification, nucleotide, stem cell, variation, evolution, natural selection, selective breeding
		Recall questions to start every lesson Recall test Review sheet
		Revision Card preparation Recall test Repetition of use of revision cards for review sheets and recall tests and for termly exams.



Inheritance, Variation and Evolution **Substantive Knowledge:** Describe evolution and explain how it occurs through natural selection Describe the main steps in genetic engineering Triple: Explain different methods of cloning, evaluate theories of evolution. Explain speciation. **Disciplinary Knowledge:** Make informed judgements about the economic, social and ethical issues concerning embryo screening Extract information from evolutionary trees		