

Biology Year 11 Curriculum End Points and key vocabulary

	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Unit of Work	Organisms - Homeostasis and Response	Inheritance, Variation and Evolution	on	Revision		
Ethos links	STEM – How the body works. Using science to treat infertility, kidney dialysis and treating organ failure by transplant or mechanical device, using plant hormones as weedkillers	STEM – how technology was used to discover the structure of DNA. Explaining observable phenomena. Theories and models developing over time due to technological advances				
Knowledge	By the end of this unit students will know and understand: What homeostasis is and why it is important Key components of control systems The structure and function of the human nervous system, including neurones, the CNS and reflex arcs The key parts of the brain and how this is studied (triple only) The structure of the eye and how they relate to the functions accommodation to focus and adaptation to light levels (triple only) How the body keeps temperature constant (triple only) What the endocrine system is and the key components of the system, and where key glands are located How blood glucose level is controlled How water and nitrogen levels are controlled (triple only)	related to sugar, phosphate, b (triple only) How characteristics are inherit and sex determination The causes of variation The theory of evolution The evidence for the theory of work, as well as other theories Lamarck (triple only) What selective breeding is and be useful The process of genetic engined production and producing insu	on, including the processes of s of sexual and asexual meaning of genome rom nucleotides and how this is tases, amino acids and proteins ted, including inherited disorders f evolution and Charles Darwin's s such as that of Jean-Baptiste d why it is done, and how it can ering and its use in food ulin s, embryo transplants and adult and the work of Darwin and the understanding of genetics, only)	By the end of this unit students of the previous unit knowled individual topic knowledge		

	 Which hormones are 		
	involved in reproduction and		
	what their functions are		
	- How different types of		
	contraception work		
	- How hormones can be used		
	to treat infertility, and the		
	associated risks and ethical		
	issues (HT)		
	- The role of thyroxine and		
	adrenaline in the body, and		
	how they are controlled by		
	negative feedback		
	- The hormones produced by		
	plants for control and		
	coordination, and the uses		
	of plant hormones (triple		
	only)		
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Key vocabulary	Homeostasis	Cono	
TAREN AND AND AND AND AND AND AND AND AND AN	1 HOHIEUSLASIS	i Gene	
Rey Vocabulary		Gene Chromosome	
Rey Vocabulary	Hormone	Chromosome	
Rey Vocabulary	Hormone Gland	Chromosome Gamete	
Rey Vocabulary	Hormone Gland Endocrine	Chromosome Gamete Mitosis	
Rey Vocabulary	Hormone Gland Endocrine Reflex	Chromosome Gamete Mitosis Meiosis	
Rey Vocabulary	Hormone Gland Endocrine Reflex Accommodation	Chromosome Gamete Mitosis Meiosis Allele	
Rey Vocabulary	Hormone Gland Endocrine Reflex Accommodation Adaptation	Chromosome Gamete Mitosis Meiosis Allele Dominant	
Rey Vocabulary	Hormone Gland Endocrine Reflex Accommodation Adaptation Contraception	Chromosome Gamete Mitosis Meiosis Allele Dominant Recessive	
Rey Vocabulary	Hormone Gland Endocrine Reflex Accommodation Adaptation Contraception Negative feedback	Chromosome Gamete Mitosis Meiosis Allele Dominant Recessive Homozygous	
Rey Vocabulary	Hormone Gland Endocrine Reflex Accommodation Adaptation Contraception	Chromosome Gamete Mitosis Meiosis Allele Dominant Recessive Homozygous Heterozygous Genotype	
Rey Vocabulary	Hormone Gland Endocrine Reflex Accommodation Adaptation Contraception Negative feedback	Chromosome Gamete Mitosis Meiosis Allele Dominant Recessive Homozygous Heterozygous Genotype Phenotype	
Rey Vocabulary	Hormone Gland Endocrine Reflex Accommodation Adaptation Contraception Negative feedback	Chromosome Gamete Mitosis Meiosis Allele Dominant Recessive Homozygous Heterozygous Genotype Phenotype Evolution	
Rey Vocabulary	Hormone Gland Endocrine Reflex Accommodation Adaptation Contraception Negative feedback	Chromosome Gamete Mitosis Meiosis Allele Dominant Recessive Homozygous Heterozygous Genotype Phenotype Evolution DNA	
Rey Vocabulary	Hormone Gland Endocrine Reflex Accommodation Adaptation Contraception Negative feedback	Chromosome Gamete Mitosis Meiosis Allele Dominant Recessive Homozygous Heterozygous Genotype Phenotype Evolution DNA Nucleotide	
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