

Saffron Walden County High School Curriculum

CURRICULUM SUMMARY



SAFFRON WALDEN
COUNTY HIGH SCHOOL

Year 12		AUTUMN TERM		SPRING TERM		SUMMER TERM	
		TERM 1A	TERM 1B	TERM 2A	TERM 2B	TERM 3A	TERM 3B
Biology	KNOWLEDGE DOMAIN – teacher 1	3.1.7 - Water 3.1.1 - Monomers and Polymers 3.1.2 – Carbohydrates 3.1.3 – Lipids 3.1.4 – Proteins and 3.1.8 inorganic ions Required practical 1	3.1.5 and 3.1.8 – Nucleic acids and inorganic ions 3.4.1 – DNA, genes and chromosomes 3.4.2 – DNA and protein synthesis	3.2.2 – All cells arise from other cells (Mitosis) 3.4.3 – Genetic diversity, mutations and meiosis 3.4.4 Genetic diversity and adaptation Required practical 2 Required practical 6	3.4.5 – species and taxonomy 3.4.6 – Biodiversity within a community 3.4.7 – Investigating diversity	3.4.7 – Investigating diversity Statistics	Revision focusing on maths skills and stats
	KNOWLEDGE DOMAIN – teacher 2	3.2.1 and 3.1.3 – cell structure and phospholipids 3.1.6, 3.1.8 and 3.2.3 – ATP, phosphate and transport across membranes Required practical 4 Required practical 3	3.2.3 – transport across membranes continued 3.2.3 and 3.3.1 – surface area : volume 3.3.2 – Gas exchange	3.3.3 – Digestion and absorption 3.3.4 – Mass transport Required practical 5	3.3.4 – Mass transport 3.2.4 - Immunity	3.2.4 – Immunity Required practical 6	Revision focusing on exam skills and CPAC / practical skills TBC – RP 12 and fieldtrip
	SKILLS DEVELOPED THROUGH THE KNOWLEDGE AND ENQUIRIES TAUGHT THIS HALF TERM	<p>Maths skills are developed throughout the Biology Year 1 course.</p> <p>https://www.aqa.org.uk/subjects/science/as-and-a-level/biology-7401-7402/mathematical-requirements-and-exemplifications</p> <p>Practical skills are also revisited and refined. They are assessed as part of CPAC skills through required practicals, and also in the exams. Students must keep a digital notebook of the practical work undertaken.</p> <p>https://www.aqa.org.uk/subjects/science/as-and-a-level/biology-7401-7402/a-level-practical-assessment</p> <p>The stated assessment objectives are:</p> <p>AO1: Demonstrate knowledge and understanding of scientific ideas, processes, techniques and procedures. AO2: Apply knowledge and understanding of scientific ideas, processes, techniques and procedures:</p> <ul style="list-style-type: none"> • In a theoretical context • In a practical context • When handling qualitative data • When handling quantitative data 					

AO3: Analyse, interpret and evaluate scientific information, ideas and evidence, including in relation to issues, to:

- Make judgements and reach conclusions
- Develop and refine practical design and procedures.

Students will also be given opportunities to refine these skills:

- Time management and organisation
- Written communication and correct application of terminology
- Group work
- Verbal articulation of ideas
- Research
- Revision
- Exam question's
- Scientific drawing