

**Curriculum Overview: Triple Biology** 

Year group 10

## What your child will learn each half term

This overview shows the key topics, skills, and knowledge your child will be learning in **Triple Biology** in **Year 10**. It helps families understand what's being taught, how it builds on previous learning, and how you can support your child at home.

- What we are learning: The topic or focus for the half term.
- **Key knowledge & skills**: What students should understand and be able to do.
- **How we assess learning**: knowledge checks, practical tasks, written responses and formal assessments.
- **Key words to know**: Vocabulary students will learn and use.

## How science works skills

- Link graphs and data to scientific models, drawing conclusions from evidence.
- Develop skills in planning, carrying out, and analysing required practicals.
- Apply practical skills: selecting equipment, measuring accurately, and identifying variables to control in an investigation.
- Communicate scientific ideas clearly in extended written answers, using correct terminology.

Half term Wha	at we are learning	Key knowledge and skills	How we will assess learning in this unit	Homework	Key vocabulary for these units
B1b Ce stem c B2a Or digestin B2b Or and pla	Organisation and the cive system Organising animals lants Communicable	Cell biology (B1a): structure and function of plant/animal cells, use of microscopes, transport by diffusion, osmosis, and active transport.  Cell division & stem cells (B1b): mitosis, cell cycle, stem cells in medicine, ethical considerations.  Organisation & digestive system (B2a): structure of digestive system, role of enzymes, effect of temperature and pH.  Organising animals & plants (B2b): structure of the heart, blood vessels, blood components, transport in plants (xylem and phloem).  Communicable diseases (B3a): types of pathogens and some diseases they can cause, how to reduce or prevent the spread of disease, human defence responses, the immune system, plant diseases	Continuous formative assessment in lessons.  End of topic tests.  Question level analysis and feedback.  Required practical assessment booklets.	Homework is set on a Monday and is due the following Sunday. Homework will be set online using a website 'Educake' which pupils will receive their login details for.	Cell, nucleus, cytoplasm, mitochondria, chloroplast, prokaryote, eukaryote, magnification, diffusion, osmosis, active transport  Mitosis, stem cell  Enzyme, active site, substrate, denature, bile  Artery, vein, capillary, plasma, red blood cell, xylem, phloem  Bacteria, fungus, protist, virus, pathogen, white blood cell, antibody, antigen, antitoxin, phagocytosis, vector.