



- ✓ Each lesson will start with a series of questions linked to both the previous lesson and topics studied previously.
- ✓ Formative assessment of skills linked to practical work will enable students to demonstrate their acquisition of new skills.
- ✓ Students are encouraged to consolidate learning at least once a week and seek tutor help if unsure on any topics.
- ✓ Within each unit, time will be allocated for consolidation and recall before assessment, this includes for mock exams.
- ✓ The following questions will be explored within the units
- ✓ Content in blue is only taught to the A pathway (students on the triple science route)

Half Term 1	
Date	<b>Topic: Organisation</b>
WC 29/08	Introduction to science (expectations, standards, health and safety, introduction of key skills and assessing prior knowledge).
WC 05/09	How does our heart work to move blood around our body? What makes up our blood and how does it move around our bodies?
WC 12/09	
WC 19/09	What is coronary heart disease? What's the difference between communicable and non-communicable disease? Does the way I live my life mean I'm more likely to get a disease?
WC 26/09	
WC 03/10	What is cancer and how is it caused? How are the structures of plant tissues adapted to their functions?
WC 10/10	How do water and sugar move through a plant?
Half Term 2	
Date	<b>Topic: Bioenergetics</b>
WC 31/10	How do plants make glucose?
WC 07/11	What factors affect photosynthesis?
WC 14/11	<b>Required practical: Photosynthesis</b>
WC 21/11	How do plants use glucose?
WC 28/11	How do organisms make energy?
WC 05/12	How does the body respond to exercise?
WC 12/12	What is your metabolism?
Half Term 3	
Date	<b>Topic: Infection and response</b>
WC 02/01	What are communicable diseases?
WC 09/01	How do viruses cause disease?
WC 16/01	How do bacteria cause disease?
WC 23/01	How do fungi cause disease?
WC 30/01	How do protists cause disease?
WC 06/02	How does the body defend itself against pathogens? How do vaccines work?
Half Term 4	
Date	<b>Topic: Infection and response/ Homeostasis</b>
WC 20/02	How do antibiotics work?
WC 27/02	How are new drugs developed?
WC 06/03	What are monoclonal antibodies? What are the uses of monoclonal antibodies? How do we identify plant diseases? How do plants defend themselves against pathogens?
WC 13/03	What is homeostasis?
WC 20/03	What is our nervous system?
WC 27/03	How do I respond to my environment?
Half Term 5	
Date	<b>Topic: Homeostasis and response</b>
WC 17/04	How fast can I react? <b>Required practical: Investigating reaction times</b>
WC 24/04	How does my brain work? How do I see?
WC 01/05	How do I control my body temperature?
WC 08/05	What's a hormone and where are they made?
WC 15/05	How does my body control sugar levels?
WC 22/05	How does my body control water levels?
Half Term 6	
Date	<b>Topic: Homeostasis and response</b>
WC 05/06	How do reproductive hormones work?
WC 12/06	How do we prevent pregnancy?
WC 19/06	How can we increase fertility?
WC 26/06	What is negative feedback?
WC 03/07	How do hormones work in plants?
WC 10/07	<b>Required practical: Investigating the effect of light and growth on newly germinated seedlings.</b>
WC 17/07	How do humans use plant hormones?