



Year 7 Curriculum Overview

- ✓ 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
- ✓ The following questions will be explored within the units

Half Term 1	
Date	Topic: Introduction to science
WC 30/08	Introduction to science (expectations, standards, health and safety, introduction of key skills and assessing prior knowledge).
WC 06/09	What equipment do I use in science?
WC 13/09	How do I work safely in a lab?
WC 20/09	How do I carry out a scientific investigation? (students will complete a variety of different investigations to build up skills over the unit) This will include maths skills, graph skills, variables and conclusions.
WC 27/09	How do I use a Bunsen burner?
WC 04/10	Where can science take me?
WC 11/09	
Half Term 2	
Date	Topic: Particles
WC 01/11	How do solids, liquid and gases differ?
WC 08/11	What happens when matter changes state?
WC 15/11	What are cooling curves?
WC 22/11	How do you measure and calculate density?
WC 29/11	What is diffusion?
WC 06/12	Where does it happen within nature and the body?
WC 13/12	How do particles create pressure?
WC 20/12	How can we change the pressure in a system?
Half Term 3	
Date	Topic: Cells and reproduction
WC 03/01	How do we classify objects as living? What do we find inside cells?
WC 10/01	What comparisons can we find between different types of cells?
WC 17/01	How can we use microscopes? What do onion cells look like through a microscope?
WC 24/01	What cells are important in our body? How are organisms organised?
WC 31/01	What are the reproductive systems? What changes should I expect during puberty? How are babies made?
WC 07/02	What are the stages of pregnancy and development of the foetus?
Half Term 4	
Date	Topic: Energy
WC 21/02	What are the different stores of energy? How does energy move from one store to another?
WC 28/02	How efficient is your house? How can we reduce wasted energy?
WC 07/03	How is heat transferred? How can we use the principle of heat transfer to increase efficiency?
WC 14/03	How can we prevent heat loss? What caused the formation of fossil fuels?
WC 21/03	How do fossil fuels provide us with electricity? How can we generate electricity from other sources?
WC 28/03	How can we provide electricity to remote locations?
Half Term 5	
Date	Topic: Separating chemicals and acids/alkalis and the Earth
WC 18/04	What is solubility? How can we make things dissolve quicker?
WC 25/04	How can we separate mixtures?
WC 02/05	What are acids and alkalis?
WC 09/05	How can we demonstrate pH? How is acid rain formed?
WC 16/05	What is our atmosphere?
WC 23/05	What happens when acids react with other substances? How can we make a salt?
Half Term 6	
Date	Topic: Fast and furious
WC 06/06	What is the periodic table?
WC 13/06	Has it always been the current way?
WC 20/06	What is an atom?
WC 27/06	How are electrons arranged?
WC 04/07	Why are some groups special?
WC 11/07	How do elements react?
WC 18/07	How can we make reactions quicker?