Curriculum Overview

Subject: Science

Year Group: 8



Pupils are encouraged to secure and deepen their knowledge into the importance of Science in the world around them. Pupils will continue to develop the powerful knowledge needed to go beyond the common understanding of science to a deeper, more rounded world view. With a focus on key concepts, Apparatus and Techniques pupils will develop the subject disciplinary knowledge needed to think, write, communicate and relate Scientific ideas to the wider world. Pupils will follow the national curriculum and have opportunities to undertake open ended investigations each term developing analytical and rational thought processes.

TERM 1	TERM 2	TERM 3
KNOWLEDGE/SKILLS	KNOWLEDGE/SKILLS	KNOWLEDGE/SKILLS
Biology: Health and drugs, Variation and survival	Biology: Energy for the body	Biology: Health and disease, Respiration
Chemistry: Obtaining useful materials	Chemistry: Physical changes	Chemistry: Acids and alkalis.
Physics: Motion on Earth and in Space, Waves	Physics: Magnetism	Physics: Electricity and circuits
 Skills: Development of scientific thinking (modelling). Experimental skill and strategies (risks and variables) Analysis and evaluation (graphing) Use of scientific vocabulary, units and symbols. 	 Skills: Development of scientific thinking (modelling). Experimental skill and strategies (risks and variables) Analysis and evaluation (graphing) Use of scientific vocabulary, units and symbols. 	 Skills: Development of scientific thinking (modelling). Experimental skill and strategies (risks and variables) Analysis and evaluation (graphing) Use of scientific vocabulary, units and symbols.
KEY ASSESSMENTS	KEY ASSESSMENTS	KEY ASSESSMENTS
Half term 1: Investigation focus- Variables Models - Planets	Half term 1: Investigation focus - Methods	Half term 1: Investigation focus- methods, FIFA assessment.
Half term 2: Effects of drugs assessment, EOT test.	Half term 2: EOT test	Half term 2: EOY test

Extended reading suggestions and external resources:				
KS3 Bitesize Science https://www.bbc.co.uk/bitesize/subjects/zng4d2p				
Oak National Academy Lessons https://classroom.thenational.academy/subjects-by-key-stage/key-stage-3/subjects/science				
Chase High Youtube Playlists https://www.youtube.com/channel/UCSK4ImJfi5sPH4UBp7cZtyQ				
We actively encourage pupils to read and research about the wider Scientific word- Planet Earth and Perfect Planet both on BBC iPlayer are examples of				
where pupils can engage with Science from the safety and comfort of their own homes.				