Year 7 Science Scheme of Learning overview 2022-2023

Term	Unit	Content covered within unit	
Autumn 1	Introduction to science lesson	Introduction to teacher	
	(1hour)	Get to know classmates	
		Lab rules and safety	
	Baseline test –all classes on the same day		
	Introduction to science	Safety	
		Asking scientific questions	
		Planning investigation	
		Recording data	
		Analysing data	
		Evaluating data	
		Bunsen burner use	
	Introduction to science assessment		
	Cells	Microscopes	
		Animal and plant cells	
		Specialised cells	
		Movement of substances	
		Unicellular organisms	
Autumn 2	Particles and their behaviour	The particle model	
		States of matter	
		Melting and freezing	
		Boiling	
		More changes of state	
		Diffusion	
	Complete Topics Cells and Particles and their behaviour prior to Assessment 1		
	Asse	ssment 1	
	Forces	Introduction to forces	
		Squashing and stretching	
		Drag and friction	
		Forces at a distance	
		Balanced and unbalanced	
Spring 1	Structure and function of body	Levels of organisation	
	systems	Gas exchange	
		BreathingSkeleton	
		Movement: jointsMovement: Muscles	
	Elements, atoms and Compounds	Elements	
	Liements, atoms and compounds	• Atoms	
		• Compounds	
		Chemical formulae	
	Complete Topics Forces, Structure	and function of body systems prior to	
	Assessment 2		
Caring 2	Δςςρ	ssment 2	
Spring 2			

Summer 1	Reproduction	 Sound and energy transfer Loudness and pitch Detecting sound Echoes and ultrasound Adolescence Reproductive systems Fertilisation and implantation Development of the foetus The menstrual cycle Flowers and pollination Fertilisation and germination Seed dispersal 	
	Light	 Light Reflection Refraction The eye and the camera Colour 	
Summer 2	Complete Topics Sound, Reproduction and Light prior to Assessment 3 Assessment 3		
	Revision for end of year test	 Working Scientifically Cells particles and their behaviour Forces Structure and function of body systems Elements, atoms and compounds Sound Reproduction Light 	
	End of Year 7 Test		
	Investigation Skills	 Practical planning, Carrying out investigations, Analysis and conclusions Evaluations 	
	Project Work	 Independent learning project Research skills Demonstration of communication skills 	

Topics are covered in different orders by staff to avoid issues with practical requisitions.

A summary lesson, quality of written communication 6 mark question practice and a knowledge test accompany each topic.