

Year 7 Science Curriculum Grid

Term	Unit	Content covered within unit
Autumn 1	Introduction to science lesson (1hour)	<ul style="list-style-type: none"> • Introduction to teacher • Get to know classmates • Lab rules and safety
	Baseline test –all classes on the same day	
	Introduction to science	<ul style="list-style-type: none"> • Safety • Asking scientific questions • Planning investigation • Recording data • Analysing data • Evaluating data • Bunsen burner use
	Introduction to science assessment	
	Cells	<ul style="list-style-type: none"> • Microscopes • Animal and plant cells • Specialised cells • Movement of substances • Unicellular organisms
Autumn 2	Particles and their behaviour	<ul style="list-style-type: none"> • 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	
	Assessment 1	
	Forces	<ul style="list-style-type: none"> • Introduction to forces • Squashing and stretching • Drag and friction • Forces at a distance • Balanced and unbalanced
Spring 1	Structure and function of body systems	<ul style="list-style-type: none"> • Levels of organisation • Gas exchange • Breathing • Skeleton • Movement: joints • Movement: Muscles
	Elements, atoms and Compounds	<ul style="list-style-type: none"> • Elements • Atoms • Compounds • Chemical formulae
	Complete Topics Forces, Structure and function of body systems prior to Assessment 2	
Spring 2	Assessment 2	
	Sound	<ul style="list-style-type: none"> • Waves • Sound and energy transfer • Loudness and pitch • Detecting sound • Echoes and ultrasound

Summer 1	Reproduction	<ul style="list-style-type: none"> • Adolescence • Reproductive systems • Fertilisation and implantation • Development of the foetus • The menstrual cycle • Flowers and pollination • Fertilisation and germination • Seed dispersal
	Light	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Practical planning, • Carrying out investigations, • Analysis and conclusions • Evaluations
	Project Work	<ul style="list-style-type: none"> • 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.