

Science Y7-8 2022-23

Year 7 - 8 hours a fortnight			
For order of topics - follow the separate topic guide.	Lessons required*	Lessons available	
Half Term 1	7 Weeks	27	28
Organisation (11)	Energy (3) Particle Model (4)		
Models - The Particle Model (2)	Ratios, fractions & percentages (2)		
Energy in food investigation - links to organisation (5) inc safety in science			
Half Term 2	7 Weeks	25	28
Cells and Transport (4)	Chemistry of the Atmosphere (5)		
Variation (3)			
Assessment AP1 (3) - All content and maths skills from HT1			
Bioenergetics (2)			
Writing like a scientist - Impact of humans (2)		Maths Skills Decimals and Significant Figures (3)	
Diffusion investigation - links to cells and transport (3)			
Half Term 3	7 Weeks	25	28
Cells and Transport (2)	Chemical Changes (4) inc atomic structure (1)	Electricity (4) and Magnetism (1)	
Bioenergetics (3)		Waves (6)	
Establishing scientific knowledge (1)			
Battery size investigation (3) - Links to electricity topic			
Half Term 4	5 Weeks	22	20
Atomic Structure - States of Matter (7)			
Assessment AP2 - All content and maths skills from HT 1-3 (3)			
		Space (3)	
Carbonates Investigation (3) Links to atomic structure and chemical changes	Atomic Structure - Atomic Model (5)	Mean, mode and median (1)	
Half Term 5	6 Weeks	20	24
	Atomic Structure - Separating Mixtures (6)	Forces (7)	
Models - Model of the atom (2)		Maths Skills Scientific equations (2)	
Dissolving Investigation - links to atomic structure (3)			
Half Term 6	7 Weeks	20	28
Assessment AP3 - All content and maths skills from HT1-5 (3)			
Ecology (4)	Rates of Reaction (3) Energy Changes (3)	Orders of magnitude and population sizes (2)	
Using evidence to develop explanations - Biodiversity (2)			
Seeds Investigation- links with Ecology (3)			

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Half Term 1	7 Weeks	27	24
Recap/consolidation of year 7 work (3)			
Cells and transport (6)	Atomic Structure (5) Quantitative Chemistry (5)	Energy (5)	
Energy and Insulation investigation - Links to energy (3)			
Half Term 2	7 Weeks	23	25
Infectious Disease (2)	Bonding (2)	Particle model (2)	
Assessment AP1 (3) - All content and maths skills from HT1 + Year 7			
	Chemical changes (10)	Surface area and volume (1)	
Acids and Bases investigation - links to chemical changes (3)			
Half Term 3	7 Weeks	22	25
Organisation (10)	Energy Changes (2)	Electricity and magnetism (5)	
		Variables (1) Scatter diagrams and correlaton (1)	
Electromagnets investigation - links to electricity and magnetism (3)			
Half Term 4	5 Weeks	18	17
Bioenergetics (3)		Space (2)	
Assessment AP2 - All content and maths skills from HT1-3 + Year 7 (3)			
	Bonding (2) Organic Chemistry (2)	Bar charts & histograms (1) Data analysis (2)	
Respiration Investigation- links to bioenergetics (3)			
Half Term 5	6 Weeks	20	21
Organisation plants (4)	Waves (7) Chemistry of the atmosphere (3)	Mini Project (2)	
Waves Investigation - links to waves (3)			
Half Term 6	7 Weeks	21	24
Assessment AP3 - All content and maths skills from HT1-5 + Year 7 (3)			
Variation and Ecology (5)	Using Resources (2)	Forces (6)	
Communicating ideas (2)			
Variation Investigation - links to ecology and variation (3)			

Lessons not accounted for on SOL are opportunities to gain a deeper understanding of the topics covered.

* Lesson allocation are approximate and half term lengths will vary. Topics may span two half terms but students should always have covered the required content by the assessment point.

Updated 27/6/22