

Science	Autumn Term	Spring term	Summer term	Assessment of learning	Enrichment opportunities / wider reading
Year 7	Cells and Movement Practical Science Matter Earth and Universe Separating Mixtures	Reproduction Ecology Forces part 1 Particles & Introduction to periodic table	Genetics Acids and Alkalis Electricity Reactions part 1 Revision and preparation for exams	Each half term: Year 7 & 8: Pupils will complete end of topic tests consisting of MCQ and short answer questions to test application of knowledge.	Science activities in enrichment bulletin Lessons containing 'to try at home' activities Carousel learning homeworks Seneca learning online revision Key Stage 3 Collins Science Revision Guide Oak Academy review sessions Further reading links provided in booklets BBC Bitesize KS3 https://www.bbc.com/bitesize/levels/z4kw2hv
Year 8	Breathing Practical Science Forces part 2 Periodic Table	Digestion Reactions part 2 Light and Sound Electricity and Magnetism	Ecosystems The Earth and its structure Genetics and Inheritance Energy Revision and preparation for exams	Mini assessments using extended writing are included in some topics where appropriate. A full write up of an investigation and analysis of the results completed Forms quizzes	Science activities in enrichment bulletin Lessons containing 'to try at home' activities Carousel learning homeworks Seneca learning online revision Key Stage 3 Collins Science Revision Guide Oak Academy review sessions Further reading links provided in booklets BBC Bitesize KS3 https://www.bbc.com/bitesize/levels/z4kw2hv
Year 9	Biology: <i>Cells to Systems</i> <i>Genetics & Inheritance</i>	<i>Plants</i>		Year 9: Pupils will complete end of topic tests in Biology, Chemistry and Physics units consisting of MCQ and short answer questions to test application of knowledge. A complete practical investigation consisting of method, analysis, conclusion and evaluation Forms quizzes End of KS3 Exam	Science activities in enrichment bulletin Lessons containing 'to try at home' activities Carousel learning homeworks AQA Collins KS3 revision guide https://www.bbc.com/bitesize/levels/z98jmp3 BBC Class clips Oak Academy review sessions Seneca learning online revision STEM projects - UU/Sellafield/Conference
	Chemistry: <i>Molecules & Trends</i> <i>Reactions</i>	<i>Acids</i> <i>Separation techniques</i>			
	Physics: <i>Energy in the home</i> <i>Forces</i>	<i>Forces (continued)</i> <i>Electricity</i>			

Assessment Map 2022-23



Department: **Science**

EPS	Year 7	Year 8	Year 9	Year 10	Year 11
<p>EPS 2 Nov 2022</p>	<p>Baseline assessment completed in September</p> <p>Focus: Initial assessment</p> <p>Structure: 45 minutes Multiple-choice Short-answer questions</p> <p>Knowledge and skills assessed: Practical skills Cells & Movement Working scientifically</p>	<p>Focus: Mixed assessment</p> <p>Structure: 45 minutes Multiple-choice Short-answer questions</p> <p>Knowledge and skills assessed: Practical skills Breathing Forces Periodic Table Working scientifically</p>	<p>Focus: Mixed assessment</p> <p>Structure: 1 hour Short-answer questions Longer-answer questions</p> <p>Knowledge and skills assessed: <i>Biology:</i> Cells to Systems <i>Chemistry:</i> Molecules and Trends <i>Physics:</i> Energy in the Home Working scientifically</p>	<p>Focus: Mixed assessment</p> <p>Structure: Adapted Paper 1 mock exam 3 x 1 hour papers (Trilogy) 3 x 1 hour 30 minutes (Triple)</p> <p>Single Tier</p> <p>Knowledge and skills assessed: <i>Biology:</i> B1 Cell Biology; B3 Infection & Response; <i>Chemistry:</i> C2 Bonding, Structure & Properties of Matter; C5 Energy Changes <i>Physics:</i> P1 Energy, P2 Electricity</p>	<p>Focus: Mixed assessment</p> <p>Structure: Full Paper 1 mock exam 3 x 1 hour 15 minutes (Trilogy) 3 x 1 hour 45 minutes (Triple)</p> <p>Higher and Foundation Tiers</p> <p>Knowledge and skills assessed: <i>Biology:</i> B1 Cell Biology; B2 Organisation; B3 Infection & Response; B4 Bioenergetics <i>Chemistry:</i> C1 Atomic Structure & Periodic Table; C2 Bonding, Structure & Properties of Matter; C3 Quantitative Chemistry; C4 Chemical Changes; C5 Energy Changes <i>Physics:</i> P1 Energy; P2 Electricity; P3 Particle Model of Matter; P4 Atomic Structure</p>
<p>EPS 3/4 March 2023</p>	<p>Focus: Mixed Assessment</p> <p>Structure: 1 hour Multiple-choice Short-answer questions</p> <p>Knowledge and skills assessed: Earth & Universe Particles Forces Reproduction Working Scientifically</p>	<p>Focus: Mixed Assessment</p> <p>Structure: 1 hour Multiple-choice Short-answer questions</p> <p>Knowledge and skills assessed: Periodic Table Digestion Light Reactions Working Scientifically</p>	<p>Focus: End of KS3 Exam</p> <p>Structure: 1 hour multiple choice (computer based) 1 hour written Short-answer questions Longer-answer questions</p> <p>Knowledge and skills assessed: Summative assessment of KS3 knowledge, mainly linked to Y9 bridging topics <i>Biology:</i> Cells to Systems / Plants <i>Chemistry:</i> Molecules and trends/Reactions/Acids <i>Physics:</i> Energy, Forces Working Scientifically</p>	<p>Focus: Mixed assessment</p> <p>Structure: Adapted Paper 1 mock exam 3 x 1 hour 15 minutes (Trilogy) 3 x 1 hour 45 minutes (Triple)</p> <p>Higher and Foundation Tiers</p> <p>Knowledge and skills assessed: <i>Biology:</i> B1 Cell Biology; B3 Infection & Response; B4 Photosynthesis only <i>Chemistry:</i> C1 Atomic Structure & Periodic Table; C2 Bonding, Structure & Properties of Matter; C4 Chemical Changes; C5 Energy Changes <i>Physics:</i> P1 Energy, P2 Electricity, P4 Atomic Structure</p>	<p>Focus: Mixed assessment</p> <p>Structure: Full Paper 2 mock exam 3 x 1 hour 15 minutes (Trilogy) 3 x 1 hour 45 minutes (Triple)</p> <p>Higher and Foundation Tiers</p> <p>At this stage pupils will be sitting the tier they will sit in the summer exams.</p> <p>Knowledge and skills assessed: <i>Biology:</i> B5 Homeostasis & Response; B6 Inheritance, Variation & Evolution; B7 Ecology; Key Ideas <i>Chemistry:</i> C6 Rate & Extent of Chemical Change; C7 Organic Chemistry; C8 Chemical Analysis; C9 Chemistry of the Atmosphere; C10 Using Resources; Key Ideas <i>Physics:</i> P5 Forces; P6 Waves; P7 Magnetism & Electromagnetism; P8 Space (Triple only); Key Ideas</p>

<p>EPS 5 May 2023</p>	<p><u>Focus:</u> End of Year Exam</p> <p><u>Structure:</u> 1 hour Multiple-choice Short-answer questions Longer-answer questions</p> <p><u>Knowledge and skills assessed:</u> Earth & Universe Particles & Periodic Table Forces Reactions Reproduction Ecology Matter Working Scientifically</p>	<p><u>Focus:</u> End of Year Exam</p> <p><u>Structure:</u> 1 hour Multiple-choice Short-answer questions Longer-answer questions</p> <p><u>Knowledge and skills assessed:</u> Breathing Forces Periodic Table Digestion Light & Sound Reactions Matter Electricity & Magnetism Working Scientifically</p>	<p><u>Focus:</u> Mixed assessment</p> <p><u>Structure:</u> 3 x 1 hour papers (B/C/P)</p> <p><u>Knowledge and skills assessed:</u> <i>Biology:</i> Infection & Response <i>Chemistry:</i> Molecules and trends/Reactions/Acids/Separation techniques <i>Physics:</i> Energy, Forces, Matter</p>		
<p>EPS 6 July 2023</p>	<p><u>Focus:</u> End of topic combined test</p> <p><u>Structure:</u> 2 x 30 mins Multiple-choice Short answer questions</p> <p><u>Knowledge and skills assessed:</u> Genetics & Variation / Acids & Alkalis Reactions 1 / Electricity</p>	<p><u>Focus:</u> End of topic combined test</p> <p><u>Structure:</u> 2 x 30 mins Multiple-choice Short answer questions</p> <p><u>Knowledge and skills assessed:</u> Ecosystems / Genetics & Inheritance Earth & its structure / Energy</p>		<p><u>Focus:</u> Mixed assessment</p> <p><u>Structure:</u> Full Paper 1 mock exam 3 x 1 hour 15 minutes (Trilogy) 3 x 1 hour 45 minutes (Triple)</p> <p>Higher and Foundation Tiers</p> <p><u>Knowledge and skills assessed:</u> <i>Biology:</i> B1 Cell Biology; B2 Organisation; B3 Infection & Response; B4 Bioenergetics</p> <p><i>Chemistry:</i> C1 Atomic Structure & Periodic Table; C2 Bonding, Structure & Properties of Matter; C3 Quantitative Chemistry; C4 Chemical Changes; C5 Energy Changes</p> <p><i>Physics:</i> P1 Energy; P2 Electricity; P3 Particle Model of Matter; P4 Atomic Structure</p>	