

## Long Term Plan: Science

Teacher 1 - KS3

Teacher 1: 2 lessons per week KS4

Teacher 2: 2 lessons per week KS4

Teacher 3: 2 lessons per week KS4



	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
<b>Year 7</b> Teacher 1	<b>Science safety and lab skills</b>  <b>Particle Model</b> (The particulate nature of matter/Energetics/Physical changes/Particle model/solids liquids/gases)  <b>Cells and Organisation</b> (Cells and organisation)	<b>Food and Nutrition and Health</b>  <b>(Nutrition and digestion)</b>  <b>Motion and forces</b> (Describing motion/forces/Balanced forces/Forces and Motion)	<b>Atoms, Elements and Compounds</b> (Atoms Elements and compounds/ Periodic table)  <b>Reproduction</b> (animal and Plant)	<b>Acids and Alkalis</b> (acids Alkali and indicators)  <b>Energy changes and transfer</b> (Energy changes and transfer)	<b>Light and Sound</b>  <b>Ecosystems</b> (foodchain/webs etc)	<b>Space</b>  <b>Revision</b>  <b>Skeleton</b>
<b>Assessment</b>	Particle Model Progress Check Cells Progress Check	Forces Progress Check Combined Assessment 1	Atoms and Elements progress check Combined Assessment 2	Energy Progress Check Combined Assessment 3	Light and Sound Progress Check	Combined Assessment 4 (EOY)
<b>Year 8 (outgoing but revised order)</b> Teacher 1	<b>Material Cycles and Energy</b> (photosynthesis/Gas exchange systems/nutrition and digestion)  <b>Atoms, Elements and</b>	<b>Energy changes and transfer</b> (Energy changes and transfer)  <b>Cellular respiration and Gas exchange</b> (Cellular respiration/Gas	<b>Materials and matter (phys)</b> (Materials/Particle model)  <b>Light</b> (Observed waves/Light waves/Energy and waves)	<b>Electricity Revision</b> (Energy/Current electricity/magnetism) <b>Genetics and Evolution</b> (inheritance,chromosomes,DNA and genes)	<b>Periodic Table</b>  <b>Materials and Rocks</b> (Materials/Earth and atmosphere)	<b>Chemical Reactions</b> (Chemical reactions/Periodic table)  <b>Pressure</b> (Changes in systems/Pressure in

	<b>Compounds recap plus chemical reactions</b> ((Atoms Elements and compounds/ Periodic table)) /	exchange systems) <b>Materials</b> (Periodic table)	<b>Sound</b> (Sound waves/Energy and waves)			Fluids/Physical changes)
<b>Assessment</b>	Atoms and element Progress check	Combined Assessment 1	Light and Sound Progress check	Genetics and Evolution progress checks Combined Assessment 2	Periodic table progress check Materials Progress check.	Combined Assessment 3 (EOY)
<b>Year 9 Teacher 1</b>	<b>Key Concepts Biology</b> (Cell biology)	<b>Cells and Control</b> (coordination and control)	<b>Genetics Natural Selection</b> ((Evolution,inheritance and variation))	<b>Human Evolution</b> (Evolution,inheritance and variation)	<b>Health,Disease and the development of Medicine</b>	<b>Revision, Review and Revisit</b>
<b>Year 9 Teacher 2</b>	<b>Key Concepts Chemistry</b> ( <u>Atomic structure and the periodic table</u> /Structure,bonding and the properties of matter/Chemical changes)	<b>Key Concepts Chemistry State of Matter and Mixtures</b> (Chemical analysis)	<b>Chemical Change</b> (Chemical changes)	<b>Chemical Change Extracting Metals and Equilibria</b>	<b>Extracting Metals and Equilibria</b> (Chemical and allied industries)	<b>Revision, Review and Revisit</b>
<b>Year 9 Teacher 3</b>	<b>Key Concepts Motion and Forces</b> (Forces/Forces and Motion)	<b>Conservation of Energy</b> (Energy)	<b>Waves</b> (Wave motion) <b>Light and the EM Spectrum</b> (Wave Motion)	<b>Radioactivity</b> (Atomic structure)	<b>Radioactivity - combined</b>  <b>Astronomy Triple only</b> (Space physics)	<b>Revision, Review and Revisit</b>
<b>Assessment</b>	Assessment Forces	Assessment Key Concepts Biology Assessment Key Concepts Chemistry Assessment Conservation of Energy	Assessment Combined Topics	Assessment Combined Topics	Assessment Combined Topics	Mock Paper 1
<b>Year 10 Teacher 1</b>	<b>Key Concepts Biology</b> (Cell biology)  <b>Health and Disease Finish</b>	<b>Plant Structures and Their Functions</b> (Photosynthesis/Cell biology) <b>Animal Coordination and Homeostasis</b>	<b>Animal Coordination and Homeostasis</b> ((Coordination and control) <b>Exchange and Transport in Animals</b>	<b>Exchange and Transport in Animals</b> (Transport Systems/Cell biology)  <b>Ecosystems and</b>	<b>Ecosystems and Material Cycles</b> (Ecosystems)	<b>Ecosystems and Material Cycles</b> (Ecosystems)  <b>Revision, Review and Revisit</b>

		(Coordination and control)	(Transport Systems/Cell biology)	<b>Material Cycles</b>		
<b>Year 10</b> Teacher 2	<b>Key Concepts Chemistry</b> ( <a href="#">Atomic structure and the periodic table</a> /Structure, bonding and the properties of matter/Chemical changes)	<b>Groups in the Periodic Table</b> (Atomic structure and the periodic table) <b>Rates of Reaction</b>	<b>Rates of Reaction and Energy Changes</b> (Energy changes in Chemistry/Rate and extent of chemical change))	<b>Fuels and Earth Science</b> (Earth and Atmosphere)	<b>Fuels and Earth Science</b> (Earth and atmospheric science)	<b>Revision, Review and Revisit</b>
<b>Year 10</b> Teacher 3	<b>Astronomy (Triple only)</b>  <b>Energy - Forces doing Work</b> ( (Energy)) <b>Forces and Their effects</b> (Energy/Forces)	<b>Electricity</b> (Electricity)	<b>Magnetism and the Motor effect</b> (Magnetism and Electromagnetism) <b>Electromagnetic induction</b> (Magnetism and Electromagnetism)	<b>Particle Model and Density</b> (The structure of Matter)	<b>Forces and Matter</b> (Forces/the structure of matter)	<b>Revision, Review and Revisit</b>
<b>Assessment</b>	Assessment Key Concepts Assessment Plants Assessment Periodic Table Assessment Forces	Assessment Electricity	Assessment Combined Topics		Assessment Combined Topics	Mock Exams Paper 2
<b>Year 11</b> Teacher 1	<b>Key Concepts Biology</b> (Cell biology) <b>Cells and Control</b>	<b>Genetics and Cell division</b>	<b>Individual Group topics</b>	<b>Revision Paper 1</b>	<b>Revision Paper 2</b>	
<b>Year 11</b> Teacher 2	<b>Key Concepts Chemistry</b>  <b>States of Matter and Separating techniques</b>	<b>Chemical Changes Metals and Reactions</b>	<b>Individual Group topics</b>	<b>Revision Paper 1</b>	<b>Revision Paper 2</b>	
<b>Year 11</b> Teacher 3	<b>Light and the EM spectrum/Waves</b>  <b>Radioactivity</b>	<b>Radioactivity</b>  <b>Forces and Motion</b>	<b>Individual Group topics</b>	<b>Revision Paper 1</b>	<b>Revision Paper 2</b>	

Assessment	Assessment Combined Topics	Mock Exams Paper 1 +2	Assessment Combined Topics	Paper 1	Paper 2	
------------	----------------------------	-----------------------	----------------------------	---------	---------	--