

## Assessment Overview

### Subject: Science

	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13
<b>Term 1</b>	Summative assessment: Cells and Body Systems Summative assessment: Forces and Space Test	Summative assessment: Health and lifestyle test Summative assessment: Periodic table and separations Summative assessment: Electricity Test	Summative end of key stage 3 assessment Homework Motion and pressure (x2) Required practical: Microscopy Required practical: Osmosis Required practical: Food tests Required practical: pH and enzyme activity Summative assessment: Cells and microscopy Summative assessment: Digestion and enzymes	<b>Physics -</b> Summative assessment: Particles Summative assessment: Atoms and radioactivity Required practical: Density Required practical: SHC  <b>Chemistry –</b> Summative assessment: Structure and bonding test Summative assessment: Mole test  <b>Biology -</b> Summative assessment:	<b>Physics –</b> Summative assessment: Forces Summative assessment: Motion Required practical: Acceleration Required practical: Hooke's Law  <b>Chemistry –</b> Summative assessment: Rates and equilibrium test Summative assessment: Organic test  <b>Biology –</b> Summative	<b>Physics –</b> Required practical: Determining g Required practical: Resistivity of a Wire Required practical: EMF Summative assessment: Particles and radiation Summative assessment: Quantum phenomena Summative assessment: mechanics (statics) test Summative assessment: mechanics (kinematics) test	<b>Physics –</b> Required practical: Pendulum and Mass on a Spring Required practical: Boyle's Law Required practical: Charles' Law Required practical: Capacitors Summative assessment: Circular Motion Test Summative assessment: SHM Test Summative assessment: Thermal Physics Test

				<p>Heart and circulation Summative assessment: Cell division Summative assessment: non-communicable diseases</p> <p><b>Combined –</b> Summative assessment: Particles Summative assessment: Atoms and radioactivity Summative assessment: cell division and diseases Summative assessment: Structure and bonding test Summative assessment: Mole test Required practical: titration</p>	<p>assessment: Nervous system Summative assessment: Homeostasis and hormonal coordination Required practical: Plant seedling growth and hormones</p> <p><b>Combined –</b> Summative assessment: Homeostasis test Summative assessment: Reproduction test Summative assessment: Forces test Summative assessment: Motion test Summative assessment: Rates and equilibrium test</p>	<p>Summative assessment: Electricity test</p> <p><b>Chemistry –</b> Summative assessment: Structure and bonding Summative assessment: Moles and molarity Required practical: Make up volumetric solution and carry out a titration</p> <p><b>Biology –</b> Required practical: Enzymes Required practical: Permeability of Membranes Required practical: Water Potential</p>	<p>Summative assessment: Gravity Fields Test Summative assessment: Electric Fields Test Summative assessment: Capacitors Test</p> <p><b>Chemistry –</b> Kinetics and equilibria test Thermodynamics test Aromatics and carbonyl test Required practical: Investigate pH changes with weak acid/strong base and strong acid/weak base Required practical: preparation of a pure organic solid and test its purity and preparation of a</p>
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				<p>Required practical: Density</p> <p>Required practical: SHC</p>	<p>Summative assessment: Crude oil test</p> <p>Required practical: Acceleration</p> <p>Required practical: Hooke's Law</p>	<p>Summative assessment: Cell structure</p> <p>Summative assessment: Biochemistry and enzymes</p> <p><b>Applied Science</b></p> <p>2x summative assessment</p> <p>On-going coursework assessment</p>	<p>pure organic liquid</p> <p>Summative assessment: A level paper one mock exam</p> <p><b>Biology –</b></p> <p>Required practical: Hill reaction</p> <p>Required practical: Anaerobic respiration</p> <p>Required practical: Summative assessment Photosynthesis and respiration</p> <p>Summative assessment genetics</p> <p>Summative assessment ecology and the environment</p>
<b>Term 2</b>	Summative assessment: Particles and elements Test	Summative assessment: Ecosystems and adaptations test	Summative assessment: Our atmosphere Summative assessment: The	<b>Physics –</b> Summative assessment: Electricity Test 1	<b>Physics –</b> Summative assessment: Magnets and Electromagnets	<b>Physics –</b> Required practical: Diffraction and Interference	<b>Physics –</b> Required practical: $F = BIL$ Required practical: Inverse

	<p>Summative assessment: Reproduction Test</p>	<p>Summative assessment: Metals and Earth test</p>	<p>Earth's resources Required practical: Purify and test water</p>	<p>Summative assessment: Electricity Test 2 Required practical: Series and Parallel Circuits Required practical: Length of wire and Resistance Required practical: Component Graphs</p> <p><b>Chemistry</b> – Summative assessment: Chemical changes test Summative assessment: Electrolysis test Required practical: Electrolysis Required practical: Prepare a salt from a base</p> <p><b>Biology</b> –</p>	<p>Summative assessment: Space Summative assessment: Mock papers</p> <p><b>Chemistry</b> – Summative assessment: Analysis test Summative assessment: Atmosphere and the earth test Required practical: Testing anions and cations Required practical: Purify and test water Required practical: Chromatography</p> <p><b>Biology</b> – Summative assessment: Variation and evolution</p>	<p>Required practical: Wave on a String Required practical: Young's Modulus Summative assessment: Waves test Summative assessment: Materials test</p> <p><b>Chemistry</b> – Summative assessment: Organic chemistry Summative assessment: Halogenoalkanes Summative assessment: Energetics test Required practical: Measurement of an enthalpy change Required practical: Tests for organic</p>	<p>Square Law of Gamma Radiation Summative assessment: Nuclear Physics Test Summative assessment: Turning Points in Physics Test Summative assessment: Magnetic Fields Test</p> <p><b>Chemistry</b> – Summative test: Organic chemistry Summative test: Transition metals Required practical: thin layer chromatography Required practical: Measuring EMF of a cell Required practical: Test</p>
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				<p>Summative assessment: Chemical changes test</p> <p>Summative assessment: Electrolysis test</p> <p>Required practical: Electrolysis</p> <p>Required practical: Prepare a salt from a base</p> <p>Required practical: Series and Parallel Circuits</p> <p>Required practical: Length of wire and Resistance</p> <p>Required practical: Component Graphs</p> <p>Required practical: Effect of exercise on breathing/heart rate</p>	<p>Required practical: Purify and test water</p> <p>Required practical: Chromatography</p>	<p>On-going coursework assessment</p>	
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<b>Term 3</b>	<p>Summative assessment: Reactions and acids Test</p> <p>Summative assessment: Sound and Light Test</p>	<p>Summative assessment: Energy, motion and pressure</p> <p>Summative assessment: End of year test</p>	<p>Summative assessment: Energy 1</p> <p>Summative assessment: Energy 2</p> <p>Summative assessment: End of topic</p> <p>Required practical: SHC</p>	<p><b>Physics –</b></p> <p>Summative assessment: Waves 1</p> <p>Summative assessment: Waves 2</p> <p>Required practical: Waves on a string</p> <p>Required practical: Ripple Tank</p> <p>Required practical: Infrared</p> <p>Required practical: Refraction (Triple)</p> <p><b>Chemistry –</b></p> <p>Summative assessment: Energy changes and rates test</p> <p>Summative assessment: Rates and equilibrium test</p> <p>Required practical: Rates of reaction with</p>	<p><b>Physics –</b></p> <p>Mock papers</p> <p>Final exam</p> <p><b>Chemistry –</b></p> <p>Summative assessment: Resources test</p> <p>Summative assessment: Rates and equilibrium test</p> <p><b>Biology –</b></p> <p>Summative assessment: Mock papers</p> <p><b>Combined –</b></p> <p>Practice exam revision</p>	<p><b>Physics –</b></p> <p>Required practical: Pendulum and Mass on a Spring</p> <p>Required practical: Charles' Law</p> <p>Summative assessment: Circular Motion Test</p> <p>Summative assessment: SHM Test</p> <p>Summative assessment: Thermal Physics Test</p> <p>Summative assessment: Gravity Test</p> <p><b>Chemistry –</b></p> <p>Required practical: Distillation</p> <p>Required practical: Measuring the rate of reaction by initial rate</p>	<p><b>Physics –</b></p> <p>Practice past papers Exams</p> <p><b>Chemistry –</b></p> <p>Practice past papers Exams</p> <p><b>Biology –</b></p> <p>Practice papers and practice essays Exams</p>
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				Summative assessment: Rates and equilibrium test Required practical: Rates of reaction with temperature and concentration Required practical: Waves on a string Required practical: Ripple Tank Required practical: Infrared Required practical: Photosynthesis			
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