

Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
<p>Topics Induction Acids and alkalis</p> <p><u>Themes</u> Working safely in the laboratory</p> <p>Common acids and alkalis, pH scale and neutralisation</p> <p><u>Assessment</u> End of topic assessments for each topic</p> <p><u>Skills</u> Variables Risk assessments</p>	<p>Topics Electricity Cells Particle theory</p> <p><u>Themes</u> Making circuits, parallel and series circuits, current and voltage</p> <p>Animal cells, plant cells, unicellular organisms and specialized cells.</p> <p>States of matter and changes of state</p> <p><u>Assessment</u> End of topic assessments for each topic</p> <p><u>Skills</u> Methods Data analysis</p>	<p>Topics Particle theory The Universe Body systems</p> <p><u>Themes</u> States of matter and changes of state</p> <p>Solar system, satellites and seasons and galaxies</p> <p>The respiratory, muscular and skeletal systems.</p> <p><u>Assessment</u> End of topic assessments for each topic</p> <p><u>Skills</u> Designing investigations Drawing conclusions</p>	<p>Topics The Earth Contact forces and motion</p> <p><u>Themes</u> Tectonic plates, volcanoes and earthquakes</p> <p>Contact and non-contact forces and balances and unbalanced forces</p> <p><u>Assessment</u> End of topic assessments for each topic</p> <p><u>Skills</u> Evaluations Graphs</p>	<p>Topics Reproduction Light</p> <p><u>Themes</u> Revision of all topics studied in Year 7</p> <p>Reproductive systems, adolescence and the menstrual cycle</p> <p>Properties of light, light waves and the eye</p> <p><u>Assessment</u> End of year assessment</p> <p><u>Skills</u> Variables Risk assessments</p>	<p>Topics Light Sound Ecology</p> <p><u>Themes</u> Properties of light, light waves and the eye</p> <p>Sound generation, sound waves and the ear</p> <p>Ecosystems, measuring the distribution of organisms and adaptations</p> <p><u>Assessment</u> End of topic assessments for each topic</p> <p><u>Skills</u> Designing investigations Evaluations</p>

SMSC/British Values:

Democracy; The rule of Law; Individual liberty; Mutual respect and tolerance of those of different faiths and beliefs.

Term 1 - Discuss the ethics surrounding abortion.

Term 4 – Smoking, drug and drinking laws.

Enrichment/Extra Curriculum:

- *National Science Week activities March 2018, Science Club and Crest Award.*

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<p>Topics Disease and Immunity The Periodic Table</p> <p>Themes Pathogens, primary & secondary defences against infection and vaccination</p> <p>The ordering of the Periodic table and the characteristics' of elements in chosen groups</p> <p>Assessment End of topic assessments for each topic</p> <p>Skills Selecting appropriate apparatus for an investigation Interpreting observations and other data</p>	<p>Topics Heat Transfer Photosynthesis Respiration</p> <p>Themes Energy and temperature, conduction, convection and infrared radiation</p> <p>Respiration and photosynthesis</p> <p>Assessment End of topic assessments for each topic</p> <p>Skills Make decisions based on the evaluation of scientific evidence and arguments.</p>	<p>Topics Chemical reactions Diet and digestion</p> <p>Themes Chemical reactions vs physical changes, word equations</p> <p>Healthy and unhealthy diets, deficiency diseases and digestion of food</p> <p>Assessment End of topic assessments for each topic</p> <p>Skills Using models to develop scientific explanations Drawing suitable conclusions</p>	<p>Topics Motion and pressure Inheritance and evolution</p> <p>Themes Speed, motion graphs, pressure in solids, liquids & gases and turning forces</p> <p>Variation, inheriting characteristics and natural selection</p> <p>Assessment End of topic assessments for each topic</p> <p>Skills Evaluate risks in an investigation Develop hypotheses</p>	<p>Topics End of Year exam AQA GCSE Transition</p> <p>Themes Revision of all topics studied in Year 8</p> <p>Introduction to GCSE skills to ease the transition from KS3 to GCSE study.</p> <p>Assessment End of topic assessments for each topic</p> <p>Skills Drawing graphs Evaluating scientific methods</p>	<p>Topics AQA GCSE Transition</p> <p>Themes Introduction to GCSE skills to ease the transition from KS3 to GCSE study.</p> <p>Assessment End of year assessment based on every topic studied</p> <p>Skills Select appropriate ways to communicate results Consider ethical issues that may arise from scientific developments</p>

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Term 2 – Why are anti-smoking adverts so graphic?

Term 2 – Should the Government ban all drugs?

Term 4 – Climate change, law, and who owns global issues?

Term 5 - The discovery of photosynthesis and the risks of imprisonment that scientists ran when they published their findings.

Enrichment/Extra Curriculum:

- *National Science Week activities March 2018, Science club and Crest Award.*