

	<i>Term 1: Sept –Dec Content</i>	<i>Term 2: Jan-April Content</i>	<i>Term 3: April - July Content</i>	<i>Desired end of year outcomes</i>
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<p style="text-align: center;">Year 9</p>	<p><i>Pupils in the main school are streamed into 5 sets and learning objectives are set according to need. Sets W, X, Y and Z complete the topics below with the delivered content including KS1, 2, 3 and 4 material depending on the needs of the pupils. The order of topics in the term will vary depending on the set.</i></p> <p><i>Pupils in Set V work towards AQA Unit Award Scheme.</i></p> <p>Dead or Alive (sets W, X, Y and Z) Students learn what it means to be alive and learn scientific terms for the 7 life processes that underpin all living things. Students learn the organs involved in each process and develop their prior knowledge of cells, their structure and function.</p> <p>Casualty (sets W, X, Y and Z) Students build on prior learning of the blood, heart and circulatory system. They learn about the causes and physiology of heart disease and the advantages and disadvantages of the treatments available.</p> <p>Sorting Out (sets W, X, Y and Z) Students build on their work in Year 7 practicing their lab skills gaining confidence and competence in the theoretical and practical aspects of separation techniques such as crystallisation, filtration, evaporation and chromatography.</p> <p>CSI (sets W, X, Y and Z) Students learn the scientific skills crime scene investigators use when solving crimes including fingerprint assess, hair and fibre analysis and blood group and DNA testing.</p> <p>AQA Unit Award Scheme (set V) <ol style="list-style-type: none"> 1) Using A Microscope 2) States of matter </p> <p><i>Pupils in the provision also receive specialised science lessons designed to promote awe and wonder, foster skills and encourage a love of learning.</i></p>	<p><i>Pupils in the main school are streamed into 5 sets and learning objectives are set according to need. Sets W, X, Y and Z complete the topics below with the delivered content including KS1, 2, 3 and 4 material depending on the needs of the pupils. The order of topics in the term will vary depending on the set.</i></p> <p><i>Pupils in Set V work towards AQA Unit Award Scheme.</i></p> <p>Acids and Alkalis (sets W, X, Y and Z) Students develop their understanding of acids and alkalis building on their prior learning. Students learn about the chemistry of acids and alkalis and their importance in agriculture. This is a lab based topic where pupils can further improve their scientific enquiry skills.</p> <p>Physical & Chemical Changes (W, X, Y, Z) Students learn the difference between changes in state and chemical changes and perform experiments to identify reversible and irreversible reactions. Pupils look at boiling and melting points and increase their confidence in working with data.</p> <p>Attractive forces (sets W, X, Y and Z) A practical based subject where pupils look at magnetic fields, make electromagnets and develop their investigation skills.</p> <p>Pushes and Pulls (sets W, X, Y and Z) Students revisit the Forces topic, deepening their learning about the physics of friction and gravity and the impact of these forces in our lives. Students examine situations where understanding forces are critical such as skydiving and driving a car. Pupils investigate stopping distances and complete investigations into Hooke's law.</p> <p>AQA Unit Award Scheme (set V) <ol style="list-style-type: none"> 1) Types of Forces 2) The Digestive system </p> <p><i>Pupils in the provision also receive specialised science lessons designed to promote awe and wonder, foster skills and encourage a love of learning.</i></p>	<p><i>Pupils are streamed into 5 sets and learning objectives are set according to need. Sets W, X, Y and Z complete the topics below with the delivered content including KS1, 2, 3 and 4 material depending on the needs of the pupils. The order of topics in the term will vary depending on the set.</i></p> <p><i>Pupils in Set V work towards AQA Unit Award Scheme.</i></p> <p>Extinction (sets W, X, Y and Z) Students learn how fossils are formed and how the fossil record has furthered our understanding of evolution. Students learn about Darwin's life and his theory and why it was not originally accepted. Students learn about the impact Humans are having on biodiversity and how animals can be protected from extinction.</p> <p>Creepy Crawlies (sets W, X, Y and Z) Students examine the relationships between different species in a habitat and interpret food webs. Students look at the concept of interdependence and the knock on effect of a change to one species on the whole food web. Pupils look at sampling techniques and use quadrats to sample plants in the school grounds.</p> <p>Final Frontier (sets W, X, Y and Z) Pupils develop their knowledge on the solar system learning features of the sun and its planets and of the instruments used to learn about our galaxy and the universe.</p> <p>Fly me to the moon (sets W, X, Y and Z) Students look at the moon landings and the physics of space exploration</p> <p>AQA Unit Award Scheme (set V) The Order and Structures that make up an Organism </p> <p><i>Pupils in the provision also receive specialised science lessons designed to promote awe and wonder, foster skills and encourage a love of learning.</i></p>	<p>The Science curriculum is designed to encourage independent thinking and to develop an enjoyment and passion for science. It is designed to give pupils confidence in their observation and questioning skills. Desired academic outcome is cohort specific but all students are expected to progress through the Glebe Stages as measured through their scientific enquiry skills. For pupils in sets W, X Y and Z knowledge is built to provide the foundation for the Entry Level Certificate in Science. For approximately 50% of pupils, content supports year 11 GCSE exams.</p>
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Assessment	Pupils in set w-z complete an end of unit test at the end of each topic. Pupils in Set Z complete coursework to fulfil the criteria for their AQA Unit Awards	Pupils in set w-z complete an end of unit test at the end of each topic. Pupils in Set Z complete coursework to fulfil the criteria for their AQA Unit Awards	Pupils in set w-z complete an end of unit test at the end of each topic. Pupils in Set Z complete coursework to fulfil the criteria for their AQA Unit Awards	Ms L Latchem Llatchem @glebe.bromley.sch. uk