

	Term 1: Sept –Dec Content	Term 2: Jan-April Content	Term 3: April - July Content	Desired end of year outcomes
Year 8	<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 and 3 material depending on the needs of the pupils. The order of topics in the term will vary depending on the set.</i></p> <p>Sound Students learn how the ear works and how we hear. They learn how different musical instruments work and how sound travels by vibration through air, liquids and solids. Pupils learn about pitch and frequency of sound and the harmful effect of loud noise.</p> <p>Light Students learn how the eye works and how we see objects. Students perform experiments to see how white light can be dispersed into the colour spectrum and look at reflection and refraction of light.</p> <p>Acids and Alkalis In this practical lab based topic, students learn about common acids and alkalis in everyday life. Students learn how to test for acids and alkalis and learn common applications for neutralisation.</p> <p>Metals In this topic students perform a series of experiments to investigate the different properties of metals. The reactivity of metals is investigated and pupils start to consider the Chemistry of metals and how that underpins their properties.</p> <p><i>Pupils in Set V follow a KS1/2 curriculum and this term study the following topics:</i></p> <ol style="list-style-type: none"> 1) Animals including Humans 2) States of Matter <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 and 3 material depending on the needs of the pupils. The order of topics in the term will vary depending on the set.</i></p> <p>Forces Students learn how forces affect our everyday lives. They perform a series of experiments and learn how to measure forces with a Newton meter. Through experimentation students learn about gravity, friction and air resistance.</p> <p>Variation and Evolution Students learn about how animals and plants are adapted to their environment and evolve over time by natural selection. Students learn about intra and interspecies competition and how the theory of evolution by natural selection came to be and the role of different scientists in its discovery.</p> <p>Cells Students learn about cells as the building blocks of life. They learn about specialised cells in plants and animals and the features they have. Students use microscopes to view animal and plant cells. Students learn about the possible medical role of stem cells and what happens when cell division goes out of control.</p> <p><i>Pupils in Set V follow a KS1/2 curriculum and this term study the following topics:</i></p> <ol style="list-style-type: none"> 1) Sound 2) Living things and their habitat <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 and 3 material depending on the needs of the pupils. The order of topics in the term will vary depending on the set.</i></p> <p>Heating and Cooling Students learn about the ways we heat our homes and our food. They learn about the movement of heat by radiation, conduction and convection. Students learn which materials are thermal conductors and insulators and how these are used to keep things cool.</p> <p>Periodic Table Students are introduced to the Periodic Table of elements and the history of how it came to be. Students learn about the properties of different elements and patterns in groups and periods. Pupils in sets Y and Z learn about atomic structure and the mass and charge of protons, neutrons and electrons</p> <p>Plants Students learn about the structure and function of different parts of flowering plants. Students learn about the process of photosynthesis and view epidermal tissue under a microscope. They learn about the life cycle of plants including reproduction, seed dispersal and germination.</p> <p><i>Pupils in Set V follow a KS1/2 curriculum and this term study the following topics:</i></p> <ol style="list-style-type: none"> 1) Light 2) Properties and Changes in Materials <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 curriculum is designed to encourage curiosity and a passion for science. It is designed to help students develop their questioning skills and critical thinking. Through experimental work students develop independence, confidence and self-belief. Desired outcome is cohort specific but all students are expected to progress through the Glebe Stages as measured through their scientific enquiry skills. Students will also have their foundation knowledge secured ready to deepen and widen their scientific education in the years ahead.</p>

				Key Contact Name & Email
Ass	Pupils in each set complete an end of unit test at the end of each topic.	Pupils in each set complete an end of unit test at the end of each topic.	Pupils in each set complete an end of unit test at the end of each topic.	Ms L Latchem llatchem@glebe.bromley.sch. uk