	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 7	Forces, organisms	Matter, energy	Genes, reactions	Electricity, ecosystems	Earth, waves	Practical skills and knowledge mastery
	In forces we cover	The matter topic	In the genes topics	We introduce students to	We teach the	C <i>i</i>
	gravity, speed-distance-	covers changes of	students learn about	electrical current, charge	structure of the	Students focus on
	time graphs and	state, the particle	variation between	and potential difference	earth, types of rocks	practical skills and
	introduce calculations.	model and atomic	living things, puberty	and they build electric	and outer space.	report writing. We
		structure.	and reproduction.	circuits.	The way as ten is	practise graph drawin
	In organisms students learn about the skeleton	Students learn the unit	In the reactions topic	In ecosystems students	The waves topic focuses on sound	and maths in science.
	and movement then are	of energy and	we cover acids and	learn how living things	waves and light	Atoms, cells and the
	taught the structure of	investigate energy in	alkalis, practical skills	interact with each other	waves.	particle model are
	cells.	food and other stores	such as making salts	and the environment,		revisited at this time
		of energy.	and reactions of	including pollination and		to secure the
			metals.	seed dispersal.		knowledge needed to
						start year 8.
Year 8	Energy, Earth	Genes, forces	Reactions, ecosystems	Waves, electromagnetism	Matter, organisms	Organisms, recap
	Students learn about	We teach about	In the reactions topic	B	The structure of an	Students learn about
	energy transfers and the	genetics, evolution	students learn about	Students learn about	atom is revisited	the gas exchange
	relationship between	and maintaining	energy changes in	water waves, radiation	and students learn	system and the
	energy and work.	biodiversity in the	chemical reactions and	and carry out an	about the periodic	digestive system.
		genes topic.	carry out experiments	experiment to model	table and properties	
	The earth topic focuses on climate change,	Students are	to demonstrate this.	waves.	of elements.	We recap the core knowledge from
	global warming and the	introduced to friction,	Through learning about	The phenomenon of	In the organisms	biology, chemistry and
	human impact on the	drag, turning forces	respiration and	magnetism is revisited	topic the effect of	physics that will
	earth.	and pressure in the	photosynthesis,	and students make	smoking alcohol and	support students with
		forces topic.	students learn about	electromagnets.	drugs is taught.	accessing year 9.
			the needs of organisms			
			and how they obtain			
			resources from the environment.			

Year 9	Cell Structure and Transport, atomic structure and the periodic table	Cell division, particle model Students learn how	Organisation, bonding In organisation students learn about	Organising animals and plants, energy Students learn the	Energy transfers, communicable diseases	Energy resources, non-communicable diseases
	Cells are taught as the basic structural unit of all organisms, adaptations of cells related to their functions, the main sub- cellular structures of eukaryotic and prokaryotic cells Students carry out practical work to learn separation technique and learn about atomic structure in detail and arrangement of elements in the periodic table.	cells grow for growth and repair. Stem cells and the ethics surrounding their use are discussed. In the particle topic students learn about radiation, density and how the energy of particles impacts matter.	cells, tissues, organs and organ systems, including the digestive system. In the bonding topic students are taught about ionic, covalent and metallic bonding and the properties of substances.	structure of the heart and blood vessels and the structure of plants. The energy topic starts with conservation and dissipation of energy and energy stores.	The energy topic continues as students learn how energy is transferred and uses of insulation to reduce energy dissipation. Students are taught about how diseases spread and the pathogens that cause them.	We cover renewable and non-renewable resources and the advantages and disadvantages of using various energy resources. Students learn about how diseases are treated and non- communicable diseases, such as cancer and coronary heart disease.
Year 10	Chemical changes, energy changes, photosynthesis	Electricity, respiration In the electricity topic	Chemical calculations, rate of reaction, the nervous system	Forces, hormonal coordination	The Earth's atmosphere and resources,	Variation and evolution, waves
	Students will learn about reduction and oxidation and the reactivity of metals, acids and alkalis. We will investigate the energy changes that take place during different chemical reactions.	we investigate circuits and learn about efficiency of electrical appliances. The respiration topic covers aerobic and anaerobic respiration in plants, animals and yeast, uses of yeast in	We teach how to calculate relative atomic mass and how to balance chemical equations. The factors affecting rate of reaction are investigated and reversible reactions are	In the forces topic students investigate motion, balanced and unbalanced forces and learn how to calculate force values. The hormonal coordination topic includes control of blood	reproduction Students learn about the composition of the Earth's atmosphere throughout history and the impact of humans on the atmosphere and	We teach the process of evolution by natural selection and how the fossil record tells us about organisms from the past. We study selective breeding, genetic engineering and investigate the ethics surrounding thi

	We teach the factors affecting photosynthesis and how plants use the glucose produced. Students will investigate the rate of photosynthesis in pond weed.	of exercise on humans.	The structure of the human nervous system is learnt, reflex actions and a factor affecting human reaction time is investigated.	and the hormones in human reproduction.	about natural resources and how they are used by humans. The reproduction topic includes cell division, DNA, genetic inheritance and inherited diseases.	In the waves topic students learn the properties of waves and the about electromagnetic waves and their uses.
Year 11	Organic chemistry, chemical analysis, interdependenceStudents learn about the different organic chemicals and their use as fuels. In chemical analysis students carry out tests for various gases, investigate chromatography and learn about mixtures.We teach the relationship between organisms and the environment in which they live and investigate distribution and abundance of species.	Ecosystems, electromagnetism The ecosystems topic explores feeding relationships, materials cycling, the importance of biodiversity and the impact humans have on the natural living world. Students learn about magnetism and the working of a motor. They investigate factors affecting the strength of an electromagnet.	Revision, consolidation and exam preparation	Revision, consolidation and exam preparation	Revision, consolidation and exam preparation	GCSE examinations