

Science	Spring 1 2019	Spring 2 2019	Summer 1 2019	Summer 2 2019	Autumn 1 2018	Autumn 2 2018
year 7	<p>7.1 - Chemistry - Particles and their behaviour, Elements atoms and compounds, Reactions, Acids and alkalis. States of matter, melting and freezing, diffusion and gas pressure. Elements, atoms, compounds and chemical formulae. Group 7.2 Living things - Understand how to identify living and non-living things using MRS GREN. Develop knowledge of life processes. Classify organisms and draw food chains and webs.</p>	<p>7.1 - Particles and their behaviour, Elements atoms and compounds, Reactions, Acids and alkalis. Chemical reactions, word equations, fuels, decomposition and conservation. Also types of acids and alkalis, pH scale and neutralisation. 7.2 Skeleton - Changes in bones from childhood to adulthood, the purpose of the skeletal system and the job of muscles and tendons in conjunction with bones.</p>	<p>7.1 - Forces, Sound, Light, Space. Squashing, stretching, drag forces, friction balanced and unbalanced forces. Waves, sound, energy transfer and how sound is detected. Group 7.2 Separating materials - Pupils will understand in a practical sense the various scientific methods used to separate mixtures of same state and mixed state substances. Further students will conduct experiments requiring a mixture of the techniques.</p>	<p>7.1 - Forces, Sound, Light, Space. Pupils will learn about light properties which include reflection, refraction and colour. Also, develop an understanding of space through learning about the solar system, Earth, moon and night sky. 7.2 Forces and Motion - Students learn about the different types of forces, what forces do, measurement of forces and how forces interact/ relate to motion.</p>	<p>7.1 - Intro to Lab. Cells, Structure and function of body systems, Reproduction. Pupils will be introduced to health and safety within the lab and the safe use of common laboratory apparatus. Pupils will learn about ways of observing cells, structure of types of cells, and movement of substances. 7.2 - Intro to Lab - Pupils will be introduced to health and safety within the lab and the safe use of common laboratory apparatus.</p>	<p>7.1 - Cells, Structure and function of body systems, Reproduction. Pupils study levels of organisation, gas exchange, breathing, skeleton and movement. Also, changes during adolescence, reproductive system, reproductive cycle in humans and plants and menstruation. 7.2 - Electricity - Pupils will learn about the dangers of electricity, its uses, generation and about common circuit componenets.</p>

year 8	<p>8.1 - The periodic table, separation techniques, Metals and acids, The Earth. Metals and non-metals, groups and periods, elements of group 1, 7 and 0. Also, mixtures, solutions, solubility, filtration, distillation and chromatography. 8.2 Living things - Understand how to identify living and non-living things using MRS GREN. Develop knowledge of life processes. Classify organisms and draw food chains and webs.</p>	<p>8.1 - The periodic table, separation techniques, Metals and acids, The Earth. Reactions between metals and acid/ oxygen/ water, metal displacement, extracting metals and composites. The Earth, its atmosphere, types of rocks, rock and carbon cycle and climate change. 8.2 Sound - Pupils will experience a range of sounds, making and changing sounds, identify common sounds and how sound travels.</p>	<p>8.1 - Electricity magnetism, Energy. Pupils will study circuits and current, voltage, types of circuits, resistance, magnets and fields, electromagnets and its uses. 8.2 Keeping Healthy - Importance of nutrients for humans, effects of a lack of food and water, distinguish between healthy and unhealthy diets, the requirement of exercise and the process of digestion. Conduct food tests.</p>	<p>Group 8.1 - Electricity and magnetism, Energy. Pupils will study about foods and fuels, energy flow and transfers as particles and radiation, temperature, energy resources, power, work and machines. Group 8.2 Acids and Alkalis - Pupils will recognise that acids have a sour taste, recognise everyday acids and alkalis, test for acids and alkalis using pH indicators and their strengths, common hazard symbols and neutralisation.</p>	<p>Group 8.1 - Health and Lifestyle, Ecosystem processes, Adaptation and inheritance. Pupils will learn about nutrients, food tests, unhealthy diets, digestion, bacteria and enzymes, drugs, alcohol and smoking. Also photosynthesis, leaves, plant minerals and chemosynthesis. Group 8.2 Heart and circulation - Pupils will learn about position of heart, its function, structure, purpose of blood and lungs, how blood flows and diseases associated with the heart.</p>	<p>Group 8.1 - Health and Lifestyle, Ecosystem processes, Adaptation and inheritance. Pupils will study respiration, food chains and webs, disruption to cycles and ecosystems. They will also learn about competition, adaptation, variation, variables, natural selection and inheritance. Group 8.2 Light - Pupils will learn about lights facts, reflection, refraction and dispersion, colours of white light, luminous and non-luminous objects and how we see colours.</p>
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year 9	9.1 - GCSE - Supplying the cell, The challenges of size, Working scietifically. 9.2 Entry Level - Final frontier, Fly me to the moon, Cooking and cleaning.	9.1 - GCSE - The nervous system, The Endocrine system. 9.2 Entry Level - Alternative energy, A place for everything.	Group 9.1 - GCSE - The Endocrine system and Maintaining internal environments. Group 9.2 Entry Level - Babies, Clean Air and Water and Sorting out.	Group 9.1 - GCSE - The particle model, atomic structure and working scientifically. Group 9.2 Entry Level - Food factory, Fuels, Nuclear Power.	Group 9.1 - GCSE - Cell structures, What happens in cells. Group 9.2 Entry Level - Creepy crawlies, Extinction, Casualty.	Group 9.1 - GCSE - Respiration, Photosynthesis. Group 9.2 Entry Level - Acids and alkalis, Gasping for breath.
3B	Living things - Understand how to identify living and non-living things using MRS GREN. Develop knowledge of life processes. Classify organisms and draw food chains and webs.	Sound - Pupils will experience a range of sounds, making and changing sounds, identify common sounds and how sound travels.	Keeping healthy - Pupils will learn about the importance of nutrients for humans, effects of a lack of food and water, distinguish between healthy and unhealthy diets, the requirement of excercise and the process of digestion. They will also conduct food tests.	Acids and alkalis - Pupils will recognise that acids have a sour taste, recognise everyday acids and alkalis, test for acids and alkalis using pH incators and their strnegths, common hazard symbols and neutralisation.	Introduction to the laborotory - Pupils will be introduced to health and safety within the lab and the safe use of common laboratory apparatus.	Light or Heart and circulation - Pupils will learn about lights facts, reflection, refraction and dispersion, colours of white light, luminous and non-luminous objects and how we see colours. Pupils will learn about position of heart, its function, structure, purpose of blood and lungs, how blood flows and diseases associated with the heart.



6B	not a Post 16 course	not a Post 16 course	not a Post 16 course	not a Post 16 course	not a Post 16 course	not a Post 16 course
6C	not a Post 16 course	not a Post 16 course	not a Post 16 course	not a Post 16 course	not a Post 16 course	not a Post 16 course
6D	not a Post 16 course	not a Post 16 course	not a Post 16 course	not a Post 16 course	not a Post 16 course	not a Post 16 course
6E	not a Post 16 course	not a Post 16 course	not a Post 16 course	not a Post 16 course	not a Post 16 course	not a Post 16 course
6F	not a Post 16 course	not a Post 16 course	not a Post 16 course	not a Post 16 course	not a Post 16 course	not a Post 16 course

