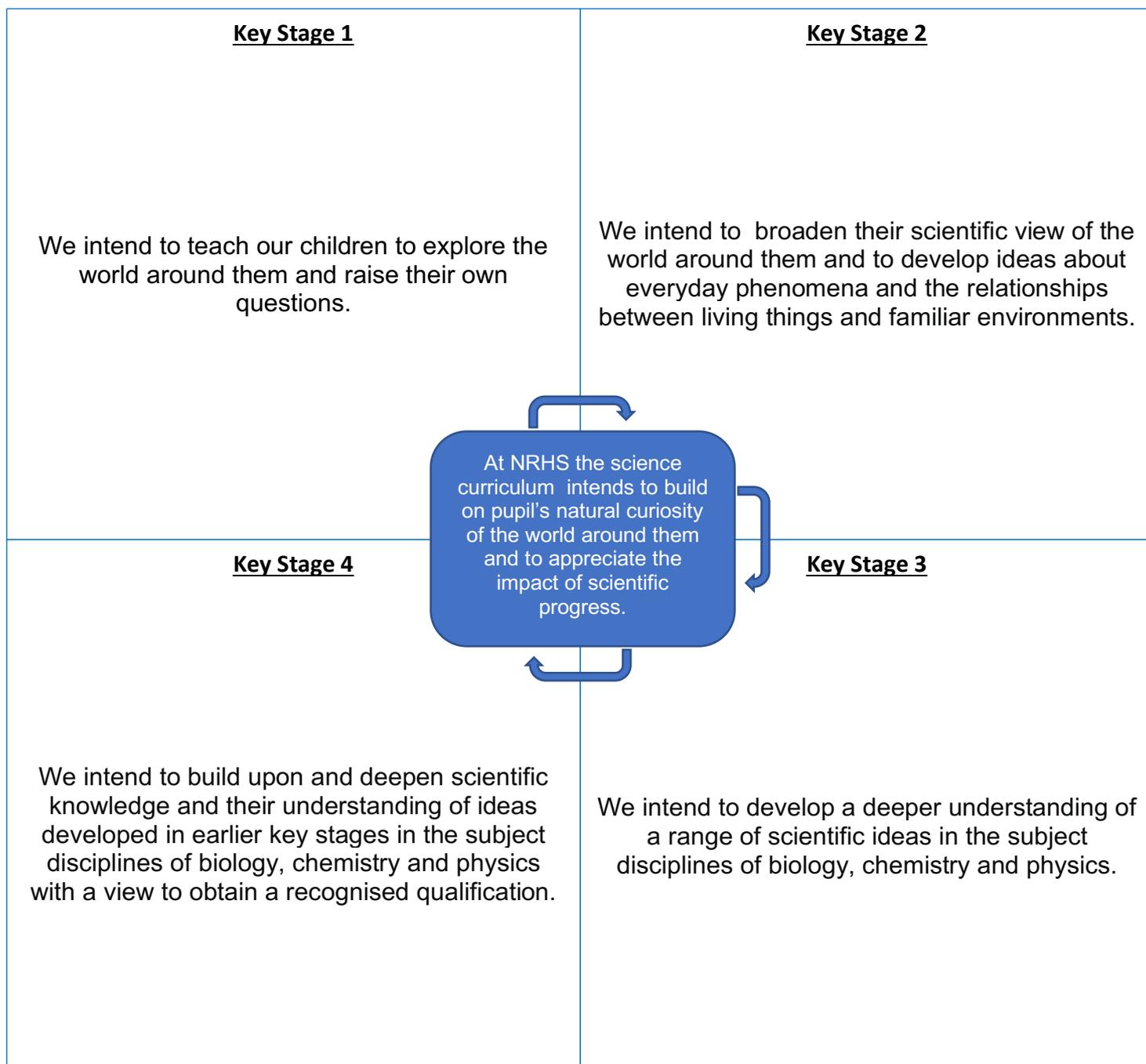


The intent of the Science curriculum at NRHS



Curriculum Information - Science

Year 1	Topic/Unit Objectives	Knowledge to be taught	Big picture cross curriculum links
Sept-Oct (Term 1.1)	Seasonal Changes – Autumn and Winter	<ul style="list-style-type: none"> • The four seasons – Focus on Autumn and Winter • The meaning of weather • How different types of weather can be measured. • The signs of autumn and winter through nature and wildlife. (Exploring changes across the season) 	<ul style="list-style-type: none"> • Links to English – Information text • Links to Maths - Counting
Oct-Dec (Term 1.2)	Seasonal Changes – Spring and Summer	<ul style="list-style-type: none"> • The four seasons – Focus on spring and summer • The weather in different seasons. • Comparisons between two seasons, as well as across all four seasons. • The signs of spring and summer through nature and wildlife (Exploring changes across the season) 	<ul style="list-style-type: none"> • Links to English – Information text • Links to Maths - Counting
Jan-Feb (Term 2.1)	Plants	<ul style="list-style-type: none"> • Plants and trees - What they need to grow well • Structure • Plants and trees [in the garden and in the wild] • Deciduous and evergreen leaves • Beans – How to plant them 	<ul style="list-style-type: none"> • Links to English – Information text • Links to Art – Where food comes from • Link to Maths - Measures
Feb-April (Term 2.2)	Animals including Humans	<ul style="list-style-type: none"> • Human and animal bodies (similarities and differences between them) • Parts of the human body • Animal bodies • Classifying animals into groups. 	<ul style="list-style-type: none"> • Links to Maths - Counting
April-May (Term 3.1)	Everyday Materials	<ul style="list-style-type: none"> • Everyday materials [including wood, plastic, metal, water and rock] • Describing the properties of everyday materials • Testing properties • Sorting objects by their properties 	<ul style="list-style-type: none"> • Links to English – Information text
May-July (Term 3.2)	Scientists and Inventors	<ul style="list-style-type: none"> • The inventions of Lego and ear muffs (the materials used to make them) • Materials that keep us warm. • Animal scientists - vets and zoo keepers. • Horticulturists and meteorologists. 	<ul style="list-style-type: none"> • Links to English – Information text

Curriculum Information - Science

Year 2	Topic/Unit Objectives	Knowledge to be taught	Big picture cross curriculum links
Sept-Oct (Term 1.1)	Plants	<ul style="list-style-type: none"> • Trees in the natural environment • Seeds and bulbs - Planting and comparing them as they grow. • What plants need to grow well • The germination process - [By growing cress] • Plants we eat • Farming [the right conditions for food crops to grow] 	<ul style="list-style-type: none"> • Links to English – Non chronological report • Links to Humanities – The local area • Links to Art – Healthy foods • Links to Maths - Measures
Oct-Dec (Term 1.2)	Everyday Materials	<ul style="list-style-type: none"> • The uses of everyday materials [including wood, plastic, metal, glass, brick, paper and cardboard] • Everyday materials and their different purposes. • Objects made from everyday materials and how they change shape • The recycling process • A focus on John McAdam - New discoveries which have been made over time 	<ul style="list-style-type: none"> • Links to English – Non chronological report • Links to Maths – collecting data
Jan-Feb (Term 2.1)	Living Things and their Habitats	<ul style="list-style-type: none"> • A variety of habitats and the plants and animals that live there. • The living, dead and things that have never been alive [Their differences] • A local habitat and the creatures that live there (minibeasts) • A range of global habitats 	<ul style="list-style-type: none"> • Links to maths – Estimating
Feb-April (Term 2.2)	Animals including Humans	<ul style="list-style-type: none"> • How humans and other animals are born, grow and change • How to be healthy –(varied diet, cleanliness & exercise) • Different kinds of animal babies • The basic needs shared by humans and animals 	<ul style="list-style-type: none"> • Links to English – Non chronological report • Links to food tech– Healthy and varied diet • Link to Maths – Collecting data
April-May (Term 3.1)	The environment	<ul style="list-style-type: none"> • Introduction to the ecological challenges that face the modern world. <ul style="list-style-type: none"> - Climate change - Recycling - Water usage/waste - Rainforests - Endangered animals • The simple changes we can make to live more sustainable lives. 	<ul style="list-style-type: none"> • Link to English – Explanation • Links to Humanities (geography) – Locating places • Links to Maths – measuring capacity • Links to RE - Changes

**May-July
(Term 3.2)**

Scientists and inventors

- The invention of the waterproof coat [and other waterproof materials].
- Elizabeth Garrett Anderson - The first woman doctor in Britain
- Louis Pasteur - How germs are spread
- Rachel Carson and her research on ocean habitats - The effects of water pollution.

- [Links to English - Instructions](#)

Curriculum Information - Science

Year 3	Topic/Unit Objectives	Knowledge to be taught	Big picture cross curriculum links
Sept-Oct (Term 1.1)	Light	<ul style="list-style-type: none"> • Sources of light and that we need light to see - Reflections - Reflective materials - Reflective surfaces • Sun safety • Shadows • How shadows change when the distance between the object and light source changes 	<ul style="list-style-type: none"> • Links to English – poetry • Links to art – shadows • Links to maths – properties 3d shape • Links to horticulture
Oct-Dec (Term 1.2)	Rocks	<ul style="list-style-type: none"> • Types of rocks and how they are formed • Rocks and their simple properties [and appearance] • How fossils are formed • The contribution of Mary Anning to the field of palaeontology. • How soil is formed • The permeability of different types of soil 	<ul style="list-style-type: none"> • Links to maths – recognising and ordering numbers – ages of rocks. • Link to History – Neolithic age • Links to art – pigment • Links to English – non-chronological reports
Jan-Feb (Term 2.1)	Forces and Magnets	<ul style="list-style-type: none"> • Forces [in the context of pushing and pulling] • Different actions as pushes or pulls. • Magnetic materials • Magnetic strength [How magnets attract and repel] 	<ul style="list-style-type: none"> • Links to geography – earth from space • Links to English – non-chronological report • Links to maths – measures / statistics.
Feb-April (Term 2.2)	Plants	<ul style="list-style-type: none"> • The names of different parts of plants, and the jobs they do. • What plants need to grow well • Transportation of water within plants. • The parts of a flower • The different stages of the life cycle of a flowering plant. 	<ul style="list-style-type: none"> • Links to Food Tech – plants we eat • Links to maths – measurement and statistics • Links to Art – Still life drawing • Links to English – instructions • Links to horticulture – seed sowing
April-May (Term 3.1)	Animals including Humans	<ul style="list-style-type: none"> • The importance of the right type and amount of nutrition • The functions of skeletons and muscles 	<ul style="list-style-type: none"> • Links to English – non chronological report • Links to Food Tech – Cooking a variety of dishes • Links to PSHE – healthy lifestyles

**May-July
(Term 3.2)**

Scientists and inventors
(Famous scientists and
inventors linked to the Y3
science curriculum)

- The men and women who risked their lives to find new plants
- Marie Curie and her work on radiation - How she developed the medical use of x-rays.
- George Washington Carver - What plants need to grow well
- William Smith – How fossils found inside rocks can be used to tell the age of the rocks

- Links to English – biography
- Links to History – Ancient Egyptians
- Links to Maths - Statistics

Curriculum Information - Science

Year 4	Topic/Unit Objectives	Knowledge to be taught	Big picture cross curriculum links
Sept-Oct (Term 1.1)	Living Things and their habitats	<ul style="list-style-type: none"> How animals are split into 'vertebrates' and 'invertebrates' Differences between living things [within these classifications] Living things in their local habitat and beyond. The effects of man-made and natural changes on the environment and the impact on living things 	<ul style="list-style-type: none"> Links to English – Non Chronological reports Links to Maths - Number
Oct-Dec (Term 1.2)	States of matter	<ul style="list-style-type: none"> The differences between solids, liquids and gases, Classifying objects and identifying their properties The changing states of materials (heating and cooling) How water changes state, exploring melting, freezing, condensing as well as a particular focus on evaporation. The stages of the water cycle 	<ul style="list-style-type: none"> Links to English – Instructions for experiment Links to Food tech – Foods that change states
Jan-Feb (Term 2.1)	Sound	<ul style="list-style-type: none"> How vibrations cause sounds and how sounds travel, as well as how sounds can change pitch and loudness How sounds are made, carrying out demonstrations of vibrations. How sound travels. How high and low sounds are made. How sounds change over distance and through different materials 	<ul style="list-style-type: none"> Links to English – Chronological reports Links to Maths – Number Links to PE – Dance: Range of movement
Feb-April (Term 2.2)	Electricity	<ul style="list-style-type: none"> What electricity is and how it was discovered Appliances that uses electricity in homes and how to keep themselves safe. Conductors and insulators How easily different types of switches can break and reconnect a circuit. 	<ul style="list-style-type: none"> Links to English – Non Chronological reports Links to Maths – Data handling
April-May (Term 3.1)	Animals including Humans	<ul style="list-style-type: none"> The digestive system in humans and animals The functions of teeth. Herbivores, carnivores and omnivores in the context of teeth, digestion and the food chain. Complex food chains and food webs. 	<ul style="list-style-type: none"> Links to English – Non Chronological reports

**May-July
(Term 3.2)**

Scientists and investors

- Gerald Durrel – The dangers posed to living things in Madagascar
- Alexander Graham Bell and the invention of the telephone
- Lord Kelvin, the man who determined the temperature of absolute zero
- The work of Thomas Edison

- [Link to Math's – Representing data](#)

Curriculum Information - Science

Year 5	Topic/Unit Objectives	Knowledge to be taught	Big picture cross curriculum links
Sept-Oct (Term 1.1)	Living Things and their habitats	<ul style="list-style-type: none"> The process of reproduction and the life cycles of plants, mammals, amphibians insects and birds Reproduction in different plants, including different methods of pollination and asexual reproduction Different types of mammals and their different life cycles Jane Goodall and her work with the now-endangered chimpanzees in Africa. Metamorphosis in insects and amphibians (comparing their life cycles) 	<ul style="list-style-type: none"> Links to English – Non chronological reports
Oct-Dec (Term 1.2)	Earth and Space	<ul style="list-style-type: none"> Earth and its place in our Solar System. The movement of the Earth, and other planets, relative to the Sun in the solar system Earth's rotation [to explain day and night and the apparent movement of the Sun across the sky] 	<ul style="list-style-type: none"> Links to Maths – Tables and bar charts Links to RE – Responsibilities of humans on earth
Jan-Feb (Term 2.1)	Forces	<ul style="list-style-type: none"> Types of forces such as gravity, friction, water resistance and air resistance. Isaac Newton and his discoveries about gravity. Patterns and links between the mass and weight of objects, using newton meters to measure the force of gravity. How variables other than the one being tested can be kept the same to help make a test fair. The use of mechanisms such as levers, gears and pulleys. 	<ul style="list-style-type: none"> Links to English – Non chronological report Links to Art – Paints creating resistance(Van Gogh) Links to Maths – Measuring mass Links to PE – Dance movements
Feb-April (Term 2.2)	Properties and changes of materials	<ul style="list-style-type: none"> Different materials, their uses and their properties Dissolving and separating mixtures [using filtering, sieving and evaporating]. Irreversible changes. Classifying objects according to their properties. Properties of materials to find the most suitable material for different purposes. 	<ul style="list-style-type: none"> Links to Art – Colour mixing Links to Maths – measuring
April-May (Term 3.1)	Animals including Humans	<ul style="list-style-type: none"> The life cycle of a human being. The development of babies and compare the gestation period of humans and other animals. Changes experienced during puberty and why these occur. The changes to the body as humans get older, as well as comparing the life expectancy of different animals. 	<ul style="list-style-type: none"> Links to Spanish - Animals

**May-July
(Term 3.2)**

Scientists and inventors

- The life and work of David Attenborough.
- How CSI technicians use scientific techniques to analyse evidence and prove or disprove evidence.
- Leonardo Da Vinci's ideas about the proportions of the Human body (seen in his work the Vitruvian man)
- Eva Cranes research into bees.

- Links to English – comparative reports
- Links to Maths – Perimeter and scale drawing

Year 6	Topic/Unit Objectives	Knowledge to be taught	Big picture cross curriculum links
Sept-Oct (Term 1.1)	Animals including humans	<ul style="list-style-type: none"> • The parts and functions of the circulatory system. • How nutrients are transported around the human body. • How a healthy lifestyle supports the body to function • How different types of drugs affect the body (introduction) 	<ul style="list-style-type: none"> • Links to Art – Surrealism • Links to Food tech – preparing healthy meals • Links to PE – Games(fitness)
Oct-Dec (Term 1.2)	Light	<ul style="list-style-type: none"> • How we see, shadows, reflection and refraction. • How light travels and how this enables us to see objects • Refraction [The effects of bending light] • How light creates the colours we see • Isaac Newton and his theory of light and colour 	<ul style="list-style-type: none"> • Links to Art – printing and drawing sculptures
Jan-Feb (Term 2.1)	Evolution and inheritance	<ul style="list-style-type: none"> • Recap of fossils, habitats and human development • Introduction to Variation and adaptation. • How both Charles Darwin and Alfred Wallace separately developed their theories of evolution. • Plants and animals - Students will examine the scientific evidence that has been gathered to support the theory of evolution. 	<ul style="list-style-type: none"> • Links to Maths – Number • Links to RE- Creation in Judaism (Comparing theories)
Feb-April (Term 2.2)	Electricity	<ul style="list-style-type: none"> • Representing circuits using symbols in a diagram • Thomas Edison and Nikola Tesla – The two most important inventors in the field of electricity • What electricity is and how to measure it 	<ul style="list-style-type: none"> • Links to English – Newspaper report • Links to Maths - decimals
April-May (Term 3.1)	Living things and their habitats	<ul style="list-style-type: none"> • The standard system of classification first developed by Carl Linnaeus (Choosing an animal and researching it's classification) • Micro-organisms • Growth of mould on bread • New singled celled microorganism using playdough Classifying organisms in the local habitat (field guide)	<ul style="list-style-type: none"> • Links to English – Non chronological reports • Links to Maths – Number/ratio and proportions
May-July (Term 3.2)	Scientists and inventors	<ul style="list-style-type: none"> • The life and work of Stephen Hawking (His theory on black holes) • Crick and Watson - DNA in inheritance • Mary Leakey and her role in finding significant fossil evidence, and what her fossils prove about evolution. • The life and work of Steve Jobs, and his development of new electronics and technologies 	<ul style="list-style-type: none"> • Links to English – Non chronological reports • Links to Maths – Using data

Curriculum Information - Science

Year 7	Topic/Unit Objectives	Knowledge to be taught	Big picture cross curriculum links
Sept-Oct (Term 1.1)	Cells Particles and their behaviour	<ul style="list-style-type: none"> Observing cells using a microscope, structure of plant and animal cells including similarities and differences, specialised cells examples for plants and animals, movement of substances with a focus on diffusion and unicellular organisms including euglena. Particle model as an explanation of properties, states of matter, state changes including interpretation of data about melting points, diffusion with evidence examples and the factors affecting gas pressure. 	<ul style="list-style-type: none"> Links to Maths – data analysis and number skills.
Oct-Dec (Term 1.2)	Forces Space	<ul style="list-style-type: none"> Squashing and stretching, drag and friction, forces at a distance (the effects of a field and gravity) and balanced and unbalanced forces. The night sky, the structure of the universe, the solar system and differences between planets, the relative motion of the, sun, the earth and the moon 	<ul style="list-style-type: none"> Links to Gymnastics balance, jumping and turning
Jan-Feb (Term 2.1)	Body Systems Elements, atoms and compounds	<ul style="list-style-type: none"> Levels or organisation, hierarchy of a multicellular organism, gas exchange and adaptations for function, breathing processes including function of parts, skeleton structure and functions, the role of joints in movement and how antagonistic muscles cause movement Elements and symbols, atoms comparison of properties, compounds and why they have different properties and writing and interpreting chemical formulae 	<ul style="list-style-type: none"> Links to Art wire men
Feb-April (Term 2.2)	Sound Light	<ul style="list-style-type: none"> Different types of waves and their features, sound (speed of through different materials and comparison to light) and energy transfer, loudness and pitch, detecting sound (the ear structure), echoes and ultra sound uses and description. Light and waves, reflection and angle measurement, refraction and semi-circular transparent blocks, the eye and the camera and colour and filters. 	<ul style="list-style-type: none"> Links to Art colour wheel
April-May (Term 3.1)	Reproduction Reactions	<ul style="list-style-type: none"> Adolescence and puberty changes, reproductive systems structure and functions, fertilisation (gametes and processes), foetus development, gestation and birth the menstrual cycle stages, flowers and seed dispersal and wind and insect pollination Chemical reactions compared to physical changes, using word equations including reactants and products, burning fuels and categorising oxidation reactions as useful or not, thermal decomposition and suing patterns to predict products, conservation of 	<ul style="list-style-type: none"> Links to PSHCE relationships, sex and drugs Links to Maths ratio and proportion

		mass calculations and classification of reactions as exothermic or endothermic.	
May-July (Term 3.2)	Acids and alkalis Separation techniques	<ul style="list-style-type: none"> • Compare the properties of acids and alkalis and use of the pH scale and indicators, neutralisation including examples of useful reactions and making salts with predictions. • Mixtures and how to identify pure substances, describing solutions using key words, solubility and saturated solutions, explaining how filtration works, evaporation and distillation methods and chromatography including analysing chromatograms. 	<ul style="list-style-type: none"> • Links to Food cooking methods • Links to Horticulture soil testing • Links to Art colour wheel

Curriculum Information - Science

Year 8	Topic/Unit Objectives	Knowledge to be taught	Big picture cross curriculum links
Sept-Oct (Term 1.1)	Health and Lifestyle	<ul style="list-style-type: none"> Nutrients and the role of each food group in the body, food tests including positive results identification, unhealthy diet and the energy requirements of different people, digestive system structure and function of main parts, bacteria and enzymes role in digestion, the effect of drugs and alcohol on health and behaviour, and smoking effects on health and pregnancy. 	<ul style="list-style-type: none"> Links to Food Tech balanced diet and primary foods
Oct-Dec (Term 1.2)	Periodic Table Electricity and Magnetism	<ul style="list-style-type: none"> Metals and non-metals and using patterns to classify, groups and periods, group 1, group 7, and group 0 properties and patterns Charging objects and the shape of a magnetic field around a bar magnet, circuits and measuring current, measuring potential difference, series and parallel circuits and how current and potential difference vary in each type of circuit, resistance including calculations, magnets and electromagnets (how to change the strength). 	
Jan-Feb (Term 2.1)	Ecosystem Processes	<ul style="list-style-type: none"> Photosynthesis including the word equation, structure and function of leaf components, plant minerals and the role of nitrates, chemosynthesis, aerobic respiration, anaerobic respiration, food chains and webs and what they show, disruption to chains and webs and ecosystems and how toxic materials can accumulate. 	<ul style="list-style-type: none"> Links to Horticulture fertilisers and ecosystems
Feb-April (Term 2.2)	Metals and Acids Energy	<ul style="list-style-type: none"> Metals and oxygen and the use of state symbols in equations, metals and water and using the reactivity series, displacement reactions, extracting metals with calculations, ceramics, polymers and composites. Food and fuels comparison of energy, energy adds up, energy and temperature the difference and what is meant by equilibrium, conduction, convection and radiation, power and machines including work done calculations 	<ul style="list-style-type: none"> Links to Food Tech balanced diet
April-May (Term 3.1)	Adaptation and Inheritance The Earth	<ul style="list-style-type: none"> Competition and adaptation and how resources are limited, variation (environmental and inherited), continuous and discontinuous variation using graphs, inheritance and the work of scientists to develop the DNA model, natural selection, evolution with evidence analysis and extinction. Atmosphere and layers of the earth types of rocks including how they are formed, the rock cycle as an example of recycling, the carbon cycle, climate change and recycling (aluminium) 	

**May-July
(Term 3.2)**

Motion and Pressure
Extended projects

- Speed calculations, motion graphs (drawing and interpreting), pressure (calculations) in gases and liquids and on solids and turning forces. Including calculating the moment of a force.

Year 9	Topic/Unit Objectives	Knowledge to be taught	Big picture cross curriculum links
Sept-Oct (Term 1.1)	New Technology Biology New Technology Chemistry	<ul style="list-style-type: none"> Genetics, inherited disorders, selective breeding, cloning, biotechnology Nano particles, in medicine. The pros and cons of cars. New fuels and hybrid electric cars. 	
Oct-Dec (Term 1.2)	New Technology Physics	<ul style="list-style-type: none"> Your phone analogue and digital signals, your house and the use of LDRs, your hospital and using thermistors, your sports and reaction time, and your planet increasing demand for electricity 	
Jan-Feb (Term 2.1)	Turning Points Biology	<ul style="list-style-type: none"> Vaccines, antibiotics, DNA, Charles Darwin and preventing extinction. 	
Feb-April (Term 2.2)	Turning Points Chemistry Turning Points Physics	<ul style="list-style-type: none"> Evidence for atoms, looking into atoms, discovering the periodic table, lessons from fossils and the oldest primate. 	
April-May (Term 3.1)	Start GCSE Science What is the body made of? Atoms, Elements and compounds	<ul style="list-style-type: none"> Animal and plant cells (eukaryotic and prokaryotic), microscope use, levels of organisation, the circulatory and digestive systems. Transport in cells (diffusion and osmosis), blood vessels and enzymes. Atoms and groups, metals and non-metals in the periodic table. Model of the atom and electronic structure. Sub atomic particles relative masses and charges. 	
May-July (Term 3.2)	Energy How the body works	<ul style="list-style-type: none"> Changes in energy stores, energy conservation and transfer by heating. Kinetic/Potential energy calculations Energy resources, efficiency and the environment Aerobic and anaerobic respiration, healthy diet and lifestyle and increasing the risk of disease 	

Curriculum Information - Science

Year 10	Topic/Unit Objectives	Knowledge to be taught	Big picture cross curriculum links
Sept-Oct (Term 1.1)	Mixtures and Compounds Forces and work	<ul style="list-style-type: none"> States of matter, separation techniques, chromatography, structures of carbon, polymers, concentration, covalent and ionic compounds. Forces, work done, weight, power, elasticity. 	
Oct-Dec (Term 1.2)	How the body fights disease Metals and alloys	<ul style="list-style-type: none"> Infectious diseases, vaccination, medical drugs and antibiotics. Bacteria and viruses, preventing diseases from spreading and testing new drugs. Metals, alloys, extracting and recycling metals. The reactivity series, electrolysis and sustainability. 	
Jan-Feb (Term 2.1)	Speed and stopping distances. How the body is coordinated	<ul style="list-style-type: none"> Speed, braking distance, distance and speed time graphs and acceleration. (Mathematical calculations and rearrangement of formulae). Gravity and resultant forces Nervous system, reactions, reflex arc, hormones and the menstrual cycle, contraception and homeostasis. And blood glucose level control. 	
Feb-April (Term 2.2)	Reactions of acids Atoms and nuclear radiation	<ul style="list-style-type: none"> Neutralisation, metals and acids, acids and carbonates, the pH scale and balancing chemical equations. Atoms and radiation, alpha, beta and gamma radiation, using radiation. Half life and graphs and radioactive contamination. 	
April-May (Term 3.1)	Feeding relationships Energy and rate of reaction	<ul style="list-style-type: none"> Photosynthesis, adaptations, food chains and webs and decay. Interdependence, factors affecting photosynthesis and investigating the rate of photosynthesis. The carbon cycle. Energy transfers, rates of reactions, reaction profiles and investigating rates of reaction. 	
May-July (Term 3.2)	Organisms and the environment Electrical current	<ul style="list-style-type: none"> Competition, living and non-living factors (biotic and abiotic) Plant distribution and pollution. Loss of and maintenance of biodiversity. Types of current, resistance, investigating components and series and parallel circuit investigation. 	

Curriculum Information - Science

Year 11	Topic/Unit Objectives	Knowledge to be taught	Big picture cross curriculum links
Sept-Oct (Term 1.1)	How life developed on earth	<ul style="list-style-type: none"> Genetic material, asexual and sexual reproduction, investigating variation, evolution and natural selection, artificial selection, genetic engineering, dominant and recessive alleles and genetic crosses and inherited disorders 	
Oct-Dec (Term 1.2)	Fuels and the atmosphere	<ul style="list-style-type: none"> Development of the atmosphere, crude oil and hydrocarbons, fuels and combustion, air pollution, climate change, cracking, polymerisation and carbon footprint. 	
Jan-Feb (Term 2.1)	Magnetism and electromagnetism Kinetic theory	<ul style="list-style-type: none"> Magnetic fields including around and electric current, electromagnets, plotting magnetic fields. Density, kinetic theory, changes of state. 	
Feb-April (Term 2.2)	Water for drinking Different types of waves Revision	<ul style="list-style-type: none"> Drinking water, investigating water and waste water treatment. Electromagnetic spectrum, uses of electromagnetic waves. Wave equation, longitudinal and transverse waves and wave measurements. 	
April-May (Term 3.1)	Revision		