	Science						
	Year 7 The same 4 topics are taught each term however the order may vary	Year 8 The same 4 topics are taught each term however the order may vary	Year 9				
A u t u m n	Practical Skills Lab safety Using and naming equipment Variables Handling data and making conclusions Cells Using a microscope Animal and plant cells Specialised cells 7 Life Processes Nerve Cells Blood cells Acids Safety and recognising hazard labels Acids and alkalis - the pH scale Neutralisation	Life Support Respiration Lung structures and gas exchange Heart and blood vessels Measuring fitness and heart disease The digestive system Food groups Making healthy choices Keeping Healthy Microbes The immune system Hygiene and minimising infections Vaccinations Drugs and peer pressure Stem cells Heating and cooling	Life Processes & Disease Antagonistic Muscle Pairs Respiration Plant Reproduction Nutrition and Eating Disorders DNA Structure Evolution and Natural Selection Chemical reactions Acid Reactions Thermal decomposition reactions Oxidation reactions Endothermic and Exothermic reactions Catalysts Electricity Nature of electric current and voltage Current and voltage in series and parallel				
	Acids and carbonates Acids and metals Acid rain Forces	Thermal energy and how it flows Heat transfer by conduction, convection and radiation Conserving energy Space technology and re-entry temperatures	Resistance Ohm's law Disease Health and Disease Growing bacteria in the lab				
A u t	Forces and how they are measured Balanced and unbalanced forces Friction	Moving around Levers Pendulums	Preventing bacterial growth Preventing infections				
u m n 2	Weight, mass and upthrust Calculating speed Forces involved in building	Circular motion Acceleration and terminal velocity Pressure Inertia	Atomic Structure History of the atom Structure of the atom Electronic structure				
	Space Why we have days and seasons The solar system		Chemical equations Ions and Isotopes Separating mixtures				

	Phases of the moon		Energy
	Satellites		Energy stores and transfers
	The universe and the big bang		Conservation of energy
	Space exploration		Work
	Particles	People and the Environment	Diseases
	Particles in solids, liquids and gases	Animal adaptations	Pathogens
	Properties of solids, liquids and gases	Competition and climate change	Diseases caused by; viruses, bacteria, fungi and
	Changes of state	Food webs	protists
	Dissolving	Pyramids of number and biomass	Defence responses by plants and animals
S	Gas pressure and density	Chemicals in farming and bioaccumulation	percented responded by premie and animals
р		Sustainable fuels	The Periodic Table
r	Elements and Compounds		Electronic structure
l i	Element symbols and definition	Shaping life	Group 1
n	Metals and non-metals	Animals behaviour for survival	Group 7
g	Compounds and mixtures	Learned behaviour	Explaining trends
1	Vital elements and compounds	Selective breeding	Explaining defias
		Genetic engineering	Energy
	Electricity and Magnetism	GM foods and intensive farming	GPE, EPE and KE calculations
	Circuit symbols and circuits		Energy dissipation
	Series and parallel circuits	Periodic table	Power
	Voltage	Elements	Preventing and Treating Disease
	Magnets	Groups in the periodic table	Vaccination
	Electromagnets	Noble gases	Antibiotics and painkillers
	Discovering electricity	The halogens	Discovering drugs
		Elements our body needs	Developing drugs
	Energy	Silicon	Monoclonal antibodies
S	Energy stores and transfers	The development of the periodic table	The Periodic Table
р	Conservation of energy	· · ·	Electronic structure
r	Calculating GPE	Metal reactions	Group 1
į i	Energy in food	Properties of metals and alloys	Group 7
n	Energy resources	Metals and water	Explaining trends
g	The energy crisis	Metals and acid	
2		The reactivity series	Energy transfer by heating
		Recycling vs mining ore	Thermal conduction and insulators
			IR radiation
			Specific heat capacity
			Insulating buildings

	Reproduction	Using elements	Non-communicable diseases
	Female and male sex organs	Structures and properties of gases	Cancer
	IVF	The history of the atmosphere	Smoking and risk of disease
	Fertilisation and embryo development	The importance of molecular formulae	Diet, exercise and disease
	Development in the uterus	Polymers	Alcohol and other carcinogens
	How offspring survive	Metallic and ionic bonding	
S	The menstrual cycle	Reduce, reuse recycle	Structure and bonding
u	Debating IVF issues		States of matter
m		What's in rocks?	Atoms into ions
m	Differences	Volcanoes and volcanologists	Ionic bonding
е	Variation and biometrics	Igneous, metamorphic and sedimentary rock	Ionic formulae
r	Inherited variation	Fossils	Covalent bonding
1	Environmental variation	The rock cycle	Bonding in metals
	Continuous variation and correlations		
	Animal behaviour	Light	Energy Resources
	Variation and sporting ability	How light travels	Energy demands
		Reflection, refraction, dispersion	Infrared radiation
	Classification	Colour of light and how we see it	More about infrared radiation
	Species and extinction	Lasers	
	Classification of invertebrates, vertebrates and plants		The digestive system
		Sound	How the digestive system works
	Chemical Reactions	How vibrations cause sound	Making digestion efficient
	Reversible and irreversible reactions	The decibel scale and ear protections	
S	Distillation and chromatography	Frequency and audible range	Structure and bonding
u	Burning	Echoes and ultrasound	States of matter
m	Hydrocarbons	How instruments produce sound	Atoms into ions
m	Photosynthesis	Supersonic speed and sonic booms	Ionic bonding
е	Climate change		Ionic formulae
r			Covalent bonding
2			Bonding in metals
			Energy Resources
			Energy and the environment
			Big energy issues