

Year 7						
Term	Торіс	Big Idea	Key Concepts			
AUT	CELLS	THE CELLULAR BASIS OF LIFE	Living, dead and never been alive, cells and cell structures, cell shape and size, diffusion and the cell membrane			
	SUBSTANCES AND MIXTURES	SUBSTANCES AND PROPERTIES	Particle model for the solid, liquid and gas states, particles in solution, particles in solution, separating solutions			
	FORCES	FORCES AND MOTION	What forces do? describing forces, balanced and unbalanced forces, friction, energy stores and transfers			
SPR	CELLS TO ORGAN SYSTEMS	THE CELLULAR BASIS OF LIFE	Working together – cells, tissues and organ systems, supplying cells – the human circulatory, digestive and gas exchange systems. The human skeleton and muscles			
	SOUND AND LIGHT	SOUND, LIGHT AND WAVES	Production and transmission of sound, characteristics of light			
	ELEMENTS AND COMPOUNDS/DESIGNING MATERIALS	PARTICLES AND STRUCTURE	Atoms and molecules, symbols and formulae, polymer properties			
SUM	PROPERTIES AND MATERIALS	SUBSTANCES AND PROPERTIES	Composite materials, classifying materials			
	INHERITANCE AND THE GENOME	HEREDITY AND LIFE CYCLES	Heredity and genetic information, The structure and function of the genome			
	SOLAR SYSTEM, EARTH AND SUN	EARTH IN SPACE	Planets and the solar system, gravity, the night sky, stars and galaxies, days and seasons			



Year 8						
Term	Торіс	Big Idea	Key Concepts			
AUT	VARIATION AND CLASSIFICATION	VARIATION, ADAPTATION AND EVOLUTION	Differences within species , changes in species over time – fossil evidence, Identifying and classifying organisms			
	HEATING AND COOLING	MATTER	Temperature, Heating and cooling , thermal conduction , thermal store of energy			
	CHEMICAL CHANGE AND SOLUBILITY	SUBSTANCES AND PROPERTIES	Comparing solubility, rearrangement of atoms, formation of new substance			
SPR	HEALTH AND DISEASE	HEALTH AND DISEASE	Good and ill health, disease, diet and exercise, pathogens			
	EARTH'S RESOURCES	EARTH CHEMISTRY	What is in a rock? Inside the Earth, making rocks by heating			
	MOTION	FORCES AND MOTION	Describing speed, motion graphs, changing motion, drag, mass and weight, hidden forces, turning effects			
SUM	UNDERSTANDING REACTIONS	PARTICLES AND STRUCTURE	Representing reactions , conservation of mass , reactions in solution, combustion air quality			
		CHEMICAL REACTIONS				
	CHANGES WITHIN A LIFETIME	HEREDITY AND LIFE CYCLES	Changes within an organism's lifetime , growth , life cycles			
	ELECTRICITY	ELECTRICITY AND MAGNETISM	Making circuits, electric current, voltage, static electricity, resistance, magnetic fields electromagnets, parallel circuits			



Year 9						
Term	Торіс	Big Idea	Key Concepts			
AUT	EVAPORATION	PARTICLES AND STRUCTURE	Explaining evaporation			
	REPRODUCTION	HEREDITY AND LIFE CYCLES	Sexual reproduction in humans, contraception, sexual and asexual reproduction in flowering plants			
	HOW WE SEE AND MAKE IMAGES	SOUND, LIGHT AND WAVES	The 'passive eye' model of vision , seeing in colour , the ray model of light to explain images, Refraction and lenses			
	ENERGY AND REACTIONS	CHEMICAL REACTIONS	Exothermic and endothermic reactions			
	ACIDS AND ALKALIS	SUBSTANCES & PROPERTIES PARTICLES	pH scale, Neutralisation , Acid rain			
SPR	FLOATING AND SINKING	MATTER	Floating, sinking and density, pressure in fluids, convection			
	BIOCHEMISTRY	THE CELLULAR BASIS OF LIFE	Plant nutrition, photosynthesis, cellular respiration			
	WATER CYCLE	EARTH CHEMISTRY	Water cycle processes			
	WEATHERING	EARTH CHEMISTRY DYNAMIC EARTH	Chemical weathering , physical weathering and erosion			
	INTERDEPENDENCE	ORGANISMS AND THEIR ENVIRONMENTS	Food chains and food webs, Interdependence within ecosystems , ecosystem biodiversity, conservation and sustainability, components and dynamics			
SUM	WAVES	SOUND AND LIGHT WAVES	Waves on water and ropes, A wave model of sound			
	PERIODIC TABLE	SUBSTANCES & PROPERTIES PARTICLES/	Trends in physical properties , atomic model , periodic patterns			
		STRUCTURE CHEMICAL REACTIONS				
	ROCK CHANGES	DYNAMIC EARTH	Making rocks by pressure and cementing , making fossil fuels			
	EVOLUTION	VARIATION, ADAPTATION AND	Explaining evolution			
		EVOLUTION				