

Building Cognitive Architecture – Coherent and Connected – Knowledge and Skill Based

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
School Value	Thankfulness	Justice	Endurance	Compassion	Koinonia	Trust
Year 5	Basic Skills and Living Things	Forces	Earth and Space	Properties of materials and practical skills		Animals inc. humans
Key Concepts/ideas	Working scientifically skills Habitats Adaptations Predator and prey Food chains and webs Simple keys	Pushes and pulls Gravity and Gravitation Theory (Newton) Friction Air and Water Resistance Mechanisms	Planets and their orbits Night and Day Movement and Phases of the moon	Properties definitions Comparing and choosing materials based on properties Solids, liquids and gases Absorbency Dissolving Separating mixtures Thermal/Electrical conductivity and insulators Burning Irreversible Changes Fair test and practical skills used during materials investigations		Life cycles Development of a foetus Changes in puberty and age Gestation periods Reproduction Metamorphosis
Sequence of Learning						
Key Opportunities			Space Detectives			Butterflies in class
Year 6	Basic Skills and Living Things and Their Habitats	Light	Animals inc. Humans	Electricity	Evolution and Inheritance	
Concepts/Ideas	Working scientifically, measurements, fair test, lab safety. MRS GREN Classification Vertebrates Linnaean system Carl Linnaeus Invertebrates Microorganisms Classification keys	Light and formation of shadows Reflection How we see Colour Optical illusions Isaac Newton	Balanced diet Starch identification Digestive system Circulatory system Effects of healthy/unhealthy lifestyle Function of the human heart Blood Effects of drugs and alcohol	Circuit symbols Simple circuit diagrams Constructing circuits Investigating electrical conductors and insulators Effecting the brightness of a bulb Michael Faraday	Fossilisation and Mary Anning Extinct and endangered Adaptative pressures, natural selection and evolution Natural and selective variation Characteristics and inheritance Charles Darwin and theory of evolution Human intervention and genetic modification	
Sequence of Learning						
Key Opportunities	Animal Visit					