

Science overview

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Aiming High	Speaking and Listening	Team	Other	Nature	Transition
	Dreams and Goals	Healthy Me	Relationships	Diversity	Being me in My world	Changing Me
EYFS	Changes – Seasonal – Autumn what happens in Autumn use of forest school to make first hand observations Materials – Investigating Ice- how will we save Supertato? What happens to ice when left? Exploring ice outside in winter Living things – healthy living – what do we need to do to keep our bodies healthy? What foods are good for you?		Places – Polar regions - Where are they, What are they like and how they differ from Aston Clinton Changes - Space Materials – waterproof – Which materials are waterproof? Making predictions and observations Changes – Seasonal – Spring what happens in Spring use of forest school to make first hand observations. Living things – Dental Health Month – how do we keep our teeth healthy?		Changes - cooking biscuits –observing how the dough changes, making predictions. Living things - farm animals, minibests, humans, plants and their life cycles learning about life cycles Changes – Seasonal – Summer what happens in Summer use of forest school to make first hand observations	
Year 1	Animals including humans Body parts senses UK animals- grouping Seasons 1- Autumn	Animals including humans - cold places grouping, Penguins Everyday Materials Identify, name, sort Materials for purpose	Everyday materials Physical properties Sort Floating and sinking Umbrella Seasons 2 - Winter	Animals including humans Australian animals Carnivore, herbivore, omnivore Seasons 3 - Spring	Plants Identify common garden and wild plants Investigate plant growth	Seasonal changes Summer Compare and contrast Weather Day length Plan a simple investigation
Year 2	Living things and their habitats Hygiene Living, never living, dead Processes common to life Simple food chains	Everyday materials Changing the shape of materials Suitability for different uses Building materials	Animals including humans Animals grow into adults. Basic needs for survival Diet exercise	Living things and their habitats What is a habitat? Hedgerow vs pond Woodlice habitat Woodland Coastal desert	Plants Grow seeds and bulbs Conditions needed to grow Nature walk Investigate plant growth in nature	Everyday materials Plastics – their uses and the problems Recycling Research John Dunlop Investigate materials suitable for tyres

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Year 3	Animals including humans Describe functions of the skeleton Explain how muscles help us to move Vertebrates vs invertebrates	Rocks and soil Rock sorting Compare rocks on properties Rock modelling Fossil formation Investigate soil Compare soils	Light Show light is needed to see Explore reflection Investigate how shadows are formed	Animals including humans Nutrition- balanced diet Nutrients and their uses Food labels Design a lunchbox Animal diets	Plants Function of different plant parts Requirements for growth Water transport Flower and seed formation Seed dispersal	Forces What is a force? Friction ramps Best shoe grip Observe magnets Compare magnetic materials Test magnets
Year 4	Living things and their habitats Group and sort animals Use classification keys Vertebrate groups Invertebrate groups	Sound Identify sources How sound is made String telephones Pitch and volume Investigate how sound changes with distance	Animals including humans Digestion Name and describe function of all parts Identify different types of teeth and their functions	States of matter Group according to state Observe temperature at which change of state occurs Evaporation and the water cycle	Animals including humans Food chains Food webs Woodland food webs Disruption of food webs Red kite introduction	Electricity Battery vs mains Simple circuits Observe impact of simple changes in circuit Electrical conductors Switches
Year 5	Living things and their habitats Plant reproduction Plant lifecycle Asexual reproduction in plants Lifecycle of amphibians vs insects Lifecycle of bird vs mammal Research Jane Goodall	Materials Compare materials based on their properties Dissolving Separating mixtures Irreversible changes	Forces Recognise more than one force can act on an object Weight and mass Friction Air resistance Buoyancy and water resistance	Forces Simple machines Levers Pulleys gears	Space Flat Earth vs sphere Solar system Night and day Movement of the moon Crater formation Research about space	Animals including humans Child development Puberty Conception Animal gestation Growth survey Human timeline
Year 6	Evolution and inheritance Fossils as evidence Inheritance Adaptation to environment Mutations Adaptation and natural selection	Animals including humans Name main organs Parts of the circulatory system Heart structure Blood functions Water and nutrient transport	Living things and their habitats Why we classify Animal classification – broad groups Use and create keys Fungi -Investigating mould growth Plant classification	Light Light travels in straight lines Reflection angles Shadow investigation Refraction of light	Electricity Use circuit symbols Changing bulb brightness Wire thickness Conductive dough Uses of switches	Animals including humans Diet Importance of exercise Smoking Drugs Research John Boyd Orr

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	Darwin's finches	Impact of exercise				
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