

Working Scientifically	Energy Transfer Model	Particle Model	Force Arrow Model	Big Picture Model
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	Autumn		Spring		Summer	
EYFS	Understanding the World (The Natural World)					
	Materials	Environment	Materials & Environment	Animals	Plants	Animals & Plants
	Similarities and differences of materials. Explore the natural world around me.	Care and concern for the environment; beginning to understand the natural world. Understand the important processes and changes in the natural world around them, including seasons and changing states of matter.	Revisit & revise key elements of previous two areas	Growth, change, importance of health and introducing habitats. Know similarities and differences between the natural world around me and contrasting environments, drawing on my experiences and what has been read in class.	Observe plants and discuss changes. Explore the natural world around me, making observations and drawing pictures of animals and plants.	Revisit & revise key elements of the previous two areas
Year 1	Plants	Seasons	Plants & Seasons	Animals Including Humans	Everyday Materials	Animals Inc Humans & Everyday Materials
	Parts of plants and trees & identifying wild & common plants.	Seasons, weather & day to night.	Revisit & revise key elements of previous two areas	Grouping & comparing animals, their diets & exploring senses.	Types of materials, what things are made of & simple properties.	Revisit & revise key elements of previous two areas
	Classification & Identification	Observation Over Time		Classification & Identification	Fair Testing	
Identify & classify wild & garden plants & trees	Observe & collect data about weather	Identify, group, compare & contrast animals.		Properties of materials		
Year 2	Living Things & Their Habitats	Animals Including Humans	Living Things & Their Habitats & Animals Inc Humans	Plants	Everyday Materials	Plants & Everyday Materials
	Living & non-living, location & connection of living things.	How humans & animals change & mature and what they need to survive and stay healthy.	Revisit & revise key elements of previous two areas	Grow healthy plants from seeds and bulbs.	Categorise & compare materials. Manipulation, purpose & suitability of materials.	Revisit & revise key elements of previous two areas
	Classification & Identification	Observation Over Time		Fair Testing	Fair Testing	
Sorting & classifying living, dead or never alive.	Observe & measure growth of animals.	What plants need to grow.		Suitable materials for given situations.		
Year 3	Plants	Animals Including Humans	Forces & Magnets	Light	Rocks	Revisit & Revise
	Structure of flowering plants, food & survival, flower function	Effects of diet & function of skeletons & muscles.	Contact and non-contact forces, effect of friction and magnetic forces.	How light allows us to see & how shadows can be formed and changed.	Formation & types of rocks & classification of rocks. Soil composition & fossil formation.	Revisit & revise key elements of previous areas
	Observation Over Time	Classification & Identification	Fair Testing	Fair Testing	Classification & Identification	
Water transportation in plants	Dissection of a plant.	Identify & compare skeletons.	Friction / magnetic strength	Patterns & size of shadows	Identifying & classifying rocks & soil.	

Year 4	Animals Including Humans	States of Matter	Electricity	Living Things & Their Habitats	Sound	Revisit & Revise
	Teeth & eating, the digestive system & food chains	Solids, liquids & gases, melting, evaporating and condensing.	Sources of electricity, components & effects of changing these in simple series circuit.	Characteristics of living things, vertebrates & invertebrates, plants, classification keys, environmental changes.	Properties, movement, pitch and volume of sound.	Revisit & revise key elements of previous areas
	Fair Testing	Observation Over Time	Pattern Seeking	Classification & Identification	Pattern Seeking	
Identify substances that damage teeth.	Evaporation of puddles	Building & observing circuits	Using a classification key	Finding patterns in pitch & volume		
Year 5	Living Things & Their Habitats	Properties & Changes in Materials	Forces	Earth & Space	Animals Including Humans	Revisit & Revise
	Life cycles & reproduction of animals (mammals, amphibians, insects, birds) & plants.	Properties, mixtures & solutions, separation of materials, & reversible & irreversible changes.	Non-contact & contact forces, air & water resistance, levers, pulleys & gears	Position, relationship & movement of planets. The effect of the Earth's rotation, tilt & orbit on day, night & seasons.	Life, growth & comparing human & animal lifespan.	Revisit & revise key elements of previous areas
	Classification & Identification	Fair Testing	Fair Testing	Observation Over Time	Observation Over Time	
	Compare how animals & plant grow & reproduce.	Reversible & irreversible changes.	Investigations linked to air resistance, water resistance & the effects of levers and pulleys.	Shadow changes throughout the day and year.	Gestation periods of animals.	
Year 6	Animals Including Humans	Living Things & Their Habitats	Light	Electricity	Inheritance & Evolution	Revisit & Revise
	Blood & blood vessels, functions of the heart & the effects of drugs, exercise & lifestyle	Pioneering scientists, classification of vertebrates & invertebrates including micro-organisms & applying classification knowledge.	How light travels, reflection, colour & refraction.	Effects & consequences of changing voltage and components in a series circuit.	Change over time, biological change & theories of evolution.	Revisit & revise key elements of previous areas
	Research	Classification & Identification	Pattern Seeking	Fair Testing	Research	
Explore scientific research about diet, exercise, drugs, lifestyle & health.	Creating classification keys	How light travels & the light spectrum.	Effects of changing components and voltage in circuits.	Animal evolution		