



Brookdale Primary School, **Science** Whole School Curriculum Overview

	AUTUMN	SPRING	SUMMER
F2	Observe similarities and differences of objects, materials and living things; describe features of environments; make observations of animals/plants, changes		
Y1	Identifying trees around our school – name wild/garden plants Properties of materials – simple physical properties of materials; compare and group items by properties	Materials – object and materials; identify materials Humans – label and name human body parts; our senses S E A S O N A L C H A N G E S	Plants – basic structure of basic flowering plants and trees Humans and other animals – name common animals (5 classes); carnivores, herbivores, omnivores;
Y2	Animals, including humans – offspring; basic needs (water, food, air); importance of exercise, food/diet and hygiene	Use of everyday materials – compare suitability of materials for uses; manipulating solids: squashing/bending/twisting/stretching	Living things and their habitats – compare living, dead, never lived; habitats interdependence of animals and plants; name plants and habitats; simple food chains/sources Plants – growth of seeds and bulbs; plants needs (water, light, temperature)
Y3	Rocks – compare rocks and properties; fossils; soil formation Forces and Magnets – movement on surfaces (forces and magnetic forces); attract/repel; compare/group; polarity; predict attract/repel	Light – light/dark/sight; reflection; dangers of the sun; shadows; shadow size Human and Animals – nutrition; skeletons and muscles and their function	Plants – functions of plant parts; air/light/water/nutrients, water transportation; flower (pollination, seed formation and dispersal); life cycle
Y4	States of matter – solid, liquids, gases; changing state; evaporation/condensation in the water cycle Humans and Animals – digestive system; human teeth; food chains (producers, prey, predators)	Living things and their habitats – classification; keys; local and wider environment; environments can change; vertebrates/invertebrates	Sound – vibrations; patterns between pitch and object features; patterns between volume and the strength of vibrations; sounds getting fainter Electricity – electrical appliances; simple circuits; label basic parts in a circuit; complete circuits; switches; insulators/conductors
Y5	Properties and changes of materials – properties (hardness, solubility, transparency, conductivity, magnets; dissolving; solids, liquids, gases; filtering; evaporation; reversible and irreversible changes; new materials	Earth and Space – Earth, planets and the Sun; lunar movements relative to Earth; spherical bodies; Earth's rotation and day/night. Forces – gravity; air/water resistance; mechanisms (levers, pulleys, gears)	Living things and their habitats – life cycles (mammal, bird, amphibian, insect); reproduction in plants and animals Animals, including humans – birth to old age; life cycle; puberty
Y6	Evolution and inheritance – fossil information; off spring and variance; adaptations to environment and possible link to evolution	Living things and their habitat – classification; micro-organisms, plants and animals; reasons for classification	Light – straight lines; the eye; light sources and reflection; shadow shape

		Animals including humans – circulatory system (functions of heart, blood vessels, diet/exercise/drugs); nutrients and water transportation within animals	Electricity – effect on components by voltage; variations in how components function; circuit symbols and diagrams
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