Oakgrove School - Curriculum Matrix

Nursery	All About Me/Seasons Use all of their senses in hands on exploration of natural materials Talk about what they see, using a wide vocabulary Talk about the differences between materials and changes that they notice	Journeys/Transport & Winter/Christmas Explore how things works Explore and talk about different forces they can feel Talk about the differences between materials and the changes that they notice Use all of their senses in hands on exploration of natural materials	Dinosaurs Explore collections of different materials with similar and/or different properties Begin to understand the need to respect and care for the natural environment and all living things.	Growing and Changing Plant seeds and care for growing plants Understand the key features of the life cycle of a plant Begin to understand the need to respect and care for the natural environment and all living things Talk about what they see using a wide useabulant	Animals and thei Understand the key fe life cycle of an animal Begin to understand th respect and care for th environment and all li
c				vocabulary	
Foundation	Similarities and differences between the natural world and contrasting environments	Explore the natural world around them Describe what they hear, see and feel whilst outside Understand the effect of changing seasons in the natural world around them Autumn - Discuss features of autumn {Local walk} Winter - Discuss features of winter	Similarities and differences between the natural world and contrasting environments Space - How is space different to Earth?	Make observations. Drawings pictures of animals and plants Explore the natural world around them Describe what they hear, see and feel whilst outside Similarities and differences between the natural world and contrasting environments Growing - observe, draw and grow cress and sunflowers	
				Science Week	
Year 1	Superheroes - Human Biology Know different parts of the body Head, shoulders, knees, toes, neck, fingers, thumbs, arm, leg, elbow, face, eye, hair, roouth, teeth, eas, nose Know what parts of the body are for Relate hearing to ears Relate touch to skin Relate seeing to eyes Recognise the senses of taste and smell Features and changes between the four seasons – weather, leaves, trees, light, animal presence and activity – hibernation, nesting, migration Day length Autumn – Aut 1	Dinosaurs - Chemistry Identify and describe materials: fabric, wood, plastic, glass, metal, water, rock, brick, paper, elastic, foil, hard/soft; stretchy/stift; shiny/dull; rough/smooth; bendy/not; absorbent/not; opaque/transparent What materials are things made of? Why are different materials used for different purposes? Strength, protectiveness and waterproofing of materials Evaluation of materials- what is the best material for? Can we protect a falling object? Can we prevent an object getting wet?	Space – Physics (Space) SUN DANGER We live on Earth The solar system – planets Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune Sun and moon – know that Earth orbits the sun and the moon orbits the Earth Sun and moon – know that Earth orbits the sun and the moon orbits the Earth How day and night happen – the earth spins on its axis. Weather and day length Winter - Spr 1 Observe movement of sun, Earth and moon (orrery)	Around the World – Animal Biology Identify and name mammals (big 5, fox, badger, otter, rat), fish (roach, pike, perch) birds (crow, magpie, wood pigeon) and pets (hamster, cat, dog, rabbit) Identify and name herbivores, carnivores and omnivores Identify amphibians (newt, frog), reptiles and invertebrates Know the structure of common animals Ocean animals (Su 2, in Water, Water)	Gardener's World – Pla Know the structure of plants (stem roots, seed, built Observe plants Name common plants (daisy, dand and trees (oak, willow Know the structure of trees (leaf, b trunk, branches) and seaso Use magnifying glasses t Spring – Summer Observe plant gro STATISTICS: Draw and interpre
Year 2	Great to be Me - Biology (Human and Animal) What humans need to survive What animals need to survive food, water, air Animal babies and growth lamb / sheep; owl, panda, penguin Human babies and growth	The Great Fire of London – Chemistry Group and compare materials Explore and discuss the suitability of materials for different uses wood, metal, plastic, glass, brick, rock, paper and cardboard Water, Ice and Steam How can I make ice melt faster? Properties of materials John Dunlop What affects the rate at which an ice lolly melts?	India – Human Biology Name food groups Describe a healthy diet Hygiene Exercise The effect of exercise on the body Life processes of living things eat, breathe, move STATISTICS: Draw and interpret pictograms in 25, 5s, and 10s. The effect of exercise on the body.	Medicine – Animal biology Living and non-living things Classify plants into habitats Animal adaptations to habitats Micro-habitat – what's under a log? Food chains What does a snail like to eat? What do snails like to eat? STATISTICS: Interpret and draw block diagrams	Going Wild - Plant B What does a plant need to grow? Bulbs and seeds; Plant Factors which affect a pl STATISTICS – Read inform simple table: Ask and answer question and comparisons fro



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and the need to for the natural all living things

Heroes and Adventurers

Explore how things work

Use all of their senses in hands on exploration of natural materials

Explore and talk about different forces they can feel

Make observations. Drawings pictures of animals and plants

Similarities and differences between the natural world and contrasting environments

d – Plant Biology ts (stem, petal, leaf, flower, ed, bulb) e plants sy, dandelion, nettle, dock) s, willow, pine) s (leaf, blossom, fruit, roots, td seasonal changes glasses to observe

Summer 1

lant growth interpret 1:1 pictogram Water - Physics (Forces)

How can you make something move? Explain a movement Push, pull, twist, squeeze What stops a movement Explore how to make something move faster or further

Summer – Summer 2

What happens when you push, pull, turn and squeeze?

Plant Biology grow? Air, light, water, soil s; Plant lifecycle

ct a plant's growth

l information from tables; estions about totals

ons from tables

Inventions – Physics (Electricity) Identify electrical appliances Identify battery operated appliances Construct a simple circuit Name and draw parts of a circuit -NOT circuit diagrams

What conducts electricity?