



2024-2025				~ · •		g .	
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
Nursery	<ul> <li>Use all their senses in hands on exploration of natural materials</li> <li>Plant seeds and care for them as they grow</li> <li>understand the key features of the life cycle of a plant or animal</li> <li>Explores and talks about different forces they feel</li> <li>Talk about changes they observe in materials and the natural world</li> <li>Explore different materials</li> </ul>						
Reception							
	- Seasons (around the Promises) - Habitats - Linked to K Root Human body - Space - Linked to writ Up.	outside of the Owls apiti Plain Writing ting roots book Look	Seed  - Seasons (around the outside of the Owls Promises) - Plants and Growing - tomatoes linked to Writing Root book Vocab of materials - opaque and translucent & properties sorting (link to making gits/DT) - boat. Floating and sinking Incubator - hatching eggs.		Seasons (around the outside of the Owls Promises)     Forces and magnets     States of matter     Life Cycles - Linked to Oi Frog		
Year One/ Two	Destruction and Preservation: Animals including Humans  Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals. □ Identify and name a variety of common animals that are carnivores, herbivores and omnivores	Space and Our World:  Y2 - Living Things and Their Habitats  Plants (Y1/2) Beegu - how would a plant survive in	Similarities and Differences: Animals including humans: Y2 - Know the basic stages in a life cycle for animals, including humans. Butterflies/tadpo les/chicks	Change and Relationships: Plants Seasonal Change (Y1)	Fantasy Journeys: Everyday materials (Y1/Y2)	Structure and Materials:  Everyday Materials Y2 - uses of everyday materials (linked to buildings and sculpture in art).	





Year Three/four/five/s ix	Crime and Punishment	Bravery and Courage	Unearthing discoveries	Legends and Folklore	Seaside Dreams	Solving Mysteries
Year	including humans, have offspring which grow into adults Find out and describe the basic needs of animals, including humans, for survival (water, food and air).  (Y1/2)  Crime and Punishment	Bravery and	Unearthing	Legends and	Soasido Droams	
	Know that animals,	space?				





Electricity/ Forces	Earth and Space	Plants/ Living things	Animals including humans/ Evolution	Materials/ states of matter	Light/ Sound
Year 3: compare how things move on different surfaces  notice that some forces need contact between 2 objects, but magnetic forces can act at a distance  observe how magnets attract or repel each other and attract some materials and not others  compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials  describe magnets as having 2 poles  predict whether 2 magnets will attract or repel each other, depending on which poles are facing.  Year 4: identify common	Year 5:describe the movement of the Earth, and other planets, relative to the Sun in the solar system  describe the movement of the Moon relative to the Earth  describe the Sun, Earth and Moon as approximately spherical bodies  use the idea of the Earth's rotation to explain day and night, and the apparent movement of the sun across the sky.	Plants/ Living things  Year 3: identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers  explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant  investigate the way in which water is transported within plants  explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.	_	-	Light/ Sound  Year 3: recognise that they need light in order to see things and that dark is the absence of light  notice that light is reflected from surfaces  recognise that light from the sun can be dangerous and that there are ways to protect their eyes  recognise that shadows are formed when the light from a light source is blocked by a solid object find patterns in the way that the size of shadows change.  Year 4: identify how sounds are made, associating some of them with something vibrations
appliances that run on electricity		dispersuit	and their simple functions	and group together everyday materials	recognise that vibrations from sounds travel





construct a simple series
electrical circuit, identifying
and naming its basic parts,
including cells, wires, bulbs,
switches and buzzers

identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery

recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit

recognise some common conductors and insulators, and associate metals with being good conductors.

Year 5: explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object Year 4: recognise that living things can be grouped in a variety of ways

explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment

recognise that environments can change and that this can sometimes pose dangers to living things.

Year 5: describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird

describe the life process of reproduction in some plants and animals.

construct and interpret a variety of food chains, identifying producers, predators and prey.

Year 5: describe the changes as humans develop to old age.

Year 6: identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood

recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function

describe the ways in which nutrients and water are transported within on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets

know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution

use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating

give reasons, based on evidence from comparative and fair tests, for the particular uses of through a medium to the ear

find patterns between the pitch of a sound and features of the object that produced it

find patterns between the volume of a sound and the strength of the vibrations that produced it.

recognise that sounds get fainter as the distance from the sound source increases

Year 6: recognise that light appears to travel in straight lines

use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eve

explain that we see things because light travels from light sources to our eyes or from light sources to





identify the effects of air
resistance, water resistance
and friction, that act
between moving surfaces

recognise that some mechanisms including levers, pulleys and gears allow a smaller force to have a greater effect

Year 6:associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit

compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches

use recognised symbols when representing a simple circuit in a diagram.

Year 6: describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including microorganisms, plants and animals

give reasons for classifying plants and animals based on specific characteristics. animals, including humans.

recognise that living things have changed over time

things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago

recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents

identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution. everyday materials, including metals, wood and plastic

demonstrate that dissolving, mixing and changes of state are reversible changes

explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda.

objects and then to our eyes

use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them





Events:		