Science Yearly Overview

We follow Hampshire Science Learning Journeys which is copy right protected so we are unable to upload it to our website. Here is an overview of areas studied and the statutory requirements that are taught within them.

	Autumn One	Autumn Two	Spring One	Spring Two	Summer One	Summer Two
Year R	Looking at Sunflower heads and describe what they can see Use fine motor skills and dry out ready for the spring Exploring minibeasts in their habitats- where might you find different minibeasts? Experimenting with different ways of moving including running, walking, hopping, rolling, crawling, climbing, skipping	Experimenting with different ways of moving including running, walking, hopping, rolling, crawling, climbing, skipping Exploring minibeasts in their habitats- where might you find different minibeasts? Autumn walk. Talk about signs of Autumn. Collect leaves looking at the shapes of the leaves and discuss the differences.	Experimenting with different ways of moving including running, walking, hopping, rolling, crawling, climbing, skipping Exploring minibeasts in their habitats- where might you find different minibeasts? To look at similarities and differences in toys To understand that different toys are made from different materials To sort toys into groups of materials they are made from Looking at dinosaurs and discussing whether they are herbivores, carnivores or omnivores Winter walk. To talk about signs of Winter. Compile a list of winter words	Exploring minibeasts in their habitats- where might you find different minibeasts? Observational drawings Experimenting with different ways of moving including running, walking, hopping, rolling, crawling, climbing, skipping	Exploring minibeasts in their habitats- where might you find different minibeasts? Experimenting with different ways of moving including running, walking, hopping, rolling, crawling, climbing, skipping Spring walk. Talk about signs of spring. What has changed – smell, feel, hear and see	Exploring minibeasts in their habitats- where might you find different minibeasts? Sort minibeasts in a variety of ways looking at difference between them Lifecycles of frogs and Butterfly Experimenting with different ways of moving including running, walking, hopping, rolling, crawling, climbing, skipping Floating and sinking- testing objects and then finding their own objects from their home and predicting whether they will float or sink Summer walk. Talk about signs of summer and how they differ from previous seasons.
Year 1	**Describing Materials** To distinguish between an object and the material from which it is made To identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock To describe the simple physical properties of a variety of everyday materials To compare and group together a variety of everyday materials on the basis of their simple physical properties		**Animal Survival** To identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals To identify and name a variety of common animals that are carnivores, herbivores and omnivores To describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets) To identify, name, draw and label the basic parts of the human body and say which part of the	**Habitats** To identify and name a variety of common wild and garden plants, including deciduous and evergreen trees	**Seasons** To observe changes across the four seasons To observe and describe weather associated with the seasons and how day length varies.	**Plants** To identify and describe the basic structure of a variety of common flowering plants, including trees.

			body is associated with each sense.			
Year 2	**Animal Life Cycles** To explore and compare the differences between things that are living, dead, and things that have never been alive To identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other To identify and name a variety of plants and animals in their habitats, including microhabitats To describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food		**Changing Materials** To identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses To find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.		**Pushes and Pulls** To identify that objects can move in various ways-roll, slide and bounce	**Making New Plants** To observe and describe how seeds and bulbs grow into mature plants To find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.

Longitudinal Studies

Year Group	Question	Type of enquiry	Aspect of working scientifically being taught	Data recording that will be taught	Key aspects being developed
Year R	What affect does seasonal change have on our pond area?	Comparing differences and changes.	Observing closely, using simple equipment Identifying and classifying Using their observations and ideas to suggest answers to questions	Accurate reading of temperature, accurate counting, using identification charts, how to fill in a table.	Animals need food to survive. Animals move in order to survive. Plants need water, warmth and light to grow and survive. Different animals and plants live in different places.
Year One	How do the seasons change the way our trees grow in school?	Comparing differences and changes.	Observing closely, using simple equipment Identifying and classifying Using their observations and ideas to suggest answers to questions Gathering and recording data to help in answering questions	Accurate reading of temperature, accurate counting, using identification charts, how to fill in a table.	Observe the changes across four seasons Observe and describe the weather associated with each season Identify and name a variety of common wild and garden plants including deciduous and evergreen trees Identify and describe the basic structure of a variety of common flowering pants, including trees
Year Two	Where will you find the most Minibeasts at different times of the year?	Describing the effect of a changing habitat	Observing closely, using simple equipment Identifying and classifying Using their observations and ideas to suggest answers to questions Gathering and recording data to help in answering questions	Accurate measuring of air temperature, annotations of pictures and completing tables and tallies.	Animals need food to survive. Different animals and plans live in different places. Environmental change can affect the animals that live there.