

	1	Norking S	cientifical	ly	
<ul> <li>Planning:</li> <li>Asking simple questions and recognising that they can be answered in different ways</li> </ul>	<ul><li>Observing closely, equipment</li><li>Performing simple</li></ul>	Oserving/obtaining evidence: Observing closely, using simple pulped to be seen to be see		nd recording data to ring questions	<ul> <li>Concluding:</li> <li>Using their observations and ideas to suggest answers to questions</li> </ul>
Language Enrichment	First Hand Experiences	Purpose / Li	fe Skills	Previous Knowledg	ge
Question, answer, plan, observe, observing, measure/measuring/measurement, predict, prediction, equipment, identify, classify, sort, diagram, chart, map, data, compare, contrast, describe, biology, chemistry, physics, group, record, results enquiry, comparative testing, identifying, classifying, grouping, observing over time, pattern seeking, research using secondary sources	<ul> <li>Umbrella investigation with materials</li> <li>Seasons, weather chart over a month. Daily recording of the weather. Presenting and reviewing data.</li> <li>Make a rain gauge</li> <li>Make a wind scale.</li> <li>Sort leaves and trees in deciduous and evergreen</li> <li>Use a map to find our way in the school and</li> </ul>	Knowing how standaring the difference of the dif	roblem solve.  tay healthy erent seasons.  with Geography bservational estanding the — understand	with objects  • Know more, so feel of own ideas and then more.  • Use talk to help work and activities.  Observing/obtaining of the control o	ry. Id respond to what they hear with Imments In see, using a wide vocabulary



make a map to burry out time capsule  - In our school, classify plants into Garden and Wild plants  - Make a fruit and vegetables salad	<ul> <li>Participate in discussions, offering their own ideas, using recently introduced vocabulary</li> <li>Make observations and draw pictures</li> <li>Concluding: <ul> <li>Explain how things work and why they might happen</li> <li>Use and understand recently introduced vocabulary during discussions</li> <li>Express their ideas and feelings about their experiences</li> <li>Offer explanations for why things might happen, making use of recently introduced vocabulary</li> </ul> </li> </ul>
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#### **Plants:**

- 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 plants, including trees.

#### **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
- Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets)
- Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense

**Language Enrichment** 

**First Hand Experiences** 

**Purpose / Life Skills** 

**Previous Knowledge** 



#### Plants Key vocabulary:

Leaf, flower, blossom, petal, fruit, berry, root, seed, trunk, branch, stem, bark, stalk, bud,

- -Names of trees in the local area
- -Names of garden and wild flowering plants in the local area

### Animals including Humans Key vocabulary:

Head, body, eyes, ears, mouth, teeth, leg, tail, wing, claw, fin, scales, feathers, fur, beak, paws, hooves, senses, touch, see, smell, taste, hear, fingers, skin, nose, ear, tongue

-Names of animals from each vertebrae group

-Parts of the body

- Walk around school grounds
- Tree drawing and observation throughout the year
- Leaves hunt
- School trip to the farm
- Grow their own plant
- Local walk
- School forest
- Local park visit
   "Ferndale Road
   Playground"
- School trip to the farm
- Visit to our pond
- In our school, look at Garden and Wild plants

Scientists/careers link

How to look after animals

Respect their environment, including plants, animals and other humans

Learn about their own bodies and how they work

Staying safe

#### Plants:

- Plant seeds and care for growing plants (Nursery)
- Understand the key features of the life cycle of a plant and animal (Nursery)
- Begin to understand the need to respect and care for the natural environment and all living things (Nursery)
- Explore the natural world around them (FS)
- •Recognise some environments are different to the one on which they live (FS)

#### **Animals including Humans:**

- Use all their senses in hands on exploration of natural materials (Nursery)
- •Name and describe people who are familiar to them (FS)



### **Chemistry**

#### **Everyday Materials:**

- Distinguish between an object and the material from which it is made
- Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock
- Describe the simple physical properties of a variety of everyday materials
- Compare and group together a variety of everyday materials on the basis of their simple physical properties

<b>Language Enrichment</b>	First Hand Experiences	Purpose / Life Skills	Previous Knowledge
Object, material, wood,	Umbrella investigation	Scientists/careers link	Use all their senses in hands on exploration of natural
plastic, glass, metal, water,			materials (Nursery)
rock, brick, paper, fabric,	Experience different	Problem solving which	Explore collections of materials with similar and/or
elastic, foil, card/ cardboard,	materials and their	material is best suited for	different properties (Nursery)
rubber, wool, clay, hard, soft,	properties (e.g. water tray)	different situations.	Talk about the differences between materials and changes
stretchy, stiff, bendy, floppy,			they notice (Nursery)
waterproof, absorbent,	Materials hunt in our school	Make choices about	
breaks/tears, rough, smooth,		materials, durability	
shiny, dull, see-through, not	Forest fire – burning		
see-through	different materials linked to		
	the Great Fire of London.		



### **Physics**

#### **Seasonal Changes:**

- observe changes across the four seasons
- observe and describe weather associated with the seasons and how day length varies

Language Enrichment	First Hand Experiences	Purpose / Life Skills	Previous Knowledge
Weather, sunny, rainy, raining, shower, windy, snowy, cloudy, hot, warm, cold, storm, thunder, lightning, hail, sleet, snow, ice, ice, frost, puddles, rainbow, seasons, winter, spring, summer, autumn, sun, sunrise, sunset, day, night, day length	<ul> <li>Seasons, weather chart over a month. Daily recording of the weather. Presenting and reviewing data.</li> <li>Make a rain gauge.</li> <li>Make a tool to measure the wind.</li> <li>Collect sign of each season, to compare at the end of the year.</li> </ul>	Scientists/careers link  Respect their environment  Staying safe in each season	<ul> <li>Understand the key features of the life cycles of a plant and animal (Nursery)</li> <li>Explore the natural world around them (FS)</li> <li>Describe what they see, hear and feel whilst outside (FS)</li> <li>Understand the effect of changing seasons on the natural world around them (FS)</li> </ul>