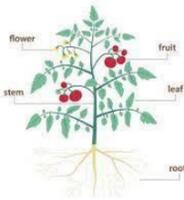


# KSI Science Knowledge and Skills Pathway

The focus of science teaching in Key Stage 1 is to allow children to experience and observe phenomena first-hand; looking closely at the natural and humanly constructed world in which they reside. Children are encouraged to use and develop their specific scientific knowledge and vocabulary to truly immerse themselves into the scientific world, with a clear development and progression of knowledge. Working scientifically is embedded within our curriculum, ensuring all children are equipped with the skills to develop themselves as scientists. A working scientifically focus is at the heart of each topic's teaching to ensure that our children are encouraged to learn through the use of first-hand practical experiences ensuring they are able to apply their knowledge.

KS2



## Habitats:

### Plants (NC Statements):

Observe and describe how seeds and bulbs grow into mature plants.  
Find and describe how plants need water, light and a suitable temperature to grow.

#### Working Scientifically Focus:

Show understanding of fair testing; Use first-hand observations; Measure to the nearest cm; Make sophisticated recordings; Explain their findings.

Summer

## Habitats:

### Living things and their habitats (NC Statements):

Explore the differences between the living and the dead.  
Understand that different animals live in different habitats which provide specific environments.  
Identify and name a variety of animals and plants.  
Describe how animals obtain food from plants (the use of a simple food chain).

#### Working Scientifically Focus:

Ask and answer simple questions about what might happen; Use a selection of sources; Show curiosity; Answer questions about predictions.



## The Norman Invasion:

### Everyday Materials (NC Statements):

Identify and compare the suitability of everyday materials.  
Find out how shapes of solid objects are made.  
Understand that materials can be changed.

#### Working Scientifically Focus:

Show understanding of fair testing; Brief overview of planning; Use first-hand observations; Make comments about the method; Explain findings verbally.

Spring



## Journeys:

### Animals, including humans (NC Statements):

Notice that animals have offspring.  
Find out about and describe the basic needs of animals for survival.  
Describe the importance for humans to have exercise, food and hygiene.

#### Working Scientifically Focus:

Ask and answer simple questions about what might happen; Use everyday words precisely; Show curiosity; Identify similarities and differences.

Autumn

## Under the Sea

### Animals, including humans (NC Statements):

Identify and name a variety of common animals, discussing their structure. (Comparison)  
Group animals based on whether they are carnivores, herbivores and omnivores.  
Identify, name, draw and label basic parts of the human body.

#### Working Scientifically Focus:

Make comments about topic of exploration; Use first-hand observations; Make scientific comparisons; Make simple recordings.

Summer



Year 2



Spring

## Toy Story:

### Everyday Materials (NC Statements):

Distinguish between object and material it is made from.  
Identify and name a variety of materials.  
Describe the physical properties of everyday materials.  
Compare and group a variety of materials.

#### Working Scientifically Focus:

Make comments about enquiry; ask and answer simple questions; measure to the nearest 10cm; use observations to answer questions.

#### Working Scientifically Focus:

First-hand observation using senses; recount make simple recordings; what they have seen or found.



## Our local area

### Seasonal Changes (NC Statements):

Observe changes across the four seasons.  
Observe and describe weather associated with the seasons and how day length varies.

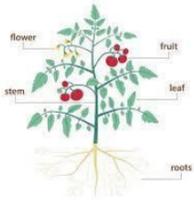
Autumn

## Our local area

### Plants (NC Statements):

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.

Year 1



#### Working Scientifically Focus:

Access simple sources; make simple scientific comparisons; use observations to suggest answers to enquiry questions.