



Nursery

Talk about what they can see  
Use all their senses in hands on exploration of natural materials  
Understand the respect/care for natural environment  
  
Under the Sea  
- Discuss sea creatures  
- explore the garden and mud kitchen  
- Discuss how to care for our world

Use all their senses in hands on exploration of natural materials  
Talk about what they can see  
Talk about differences between materials/changes  
Explore collections of materials with similar/different properties  
  
Autumn  
- Know that ice is water that is frozen  
- Explore how the setting has changed during the term

Explore collections of materials with similar/different properties  
Explore how things work  
  
Space  
-Explore magnets

Explore collections of materials with similar/different properties  
Understand the respect/care for natural environment  
  
Traditional Tales  
- Model using different materials  
- Grow beans

Understand key features of life cycle - plant/animal  
Understand the respect/care for natural environment  
Understand key features of life cycle - plant/animals  
  
Minibeasts  
- Observe minibeasts  
- The very hungry caterpillar  
- Observe caterpillars develop into butterflies

Foundation

Similarities and differences between the natural world and contrasting environments.  
  
Under the Sea  
- Describe how under the sea is different to 'on land'

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 (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

Similarities and differences between the natural world and contrasting environments  
  
Around the World  
- Describe other countries as 'hot' and 'cold'

Make observations. Drawings pictures of animals and plants  
Similarities and differences between the natural world and contrasting environments  
  
Habitats  
- create drawings and diagrams of observations  
- compare habitats

Year 1

Superheroes - Human Biology  
Know different parts of the body **Head, shoulders, knees, toes, neck, fingers, thumbs, arm, leg, elbow, face, eye, hair, mouth, teeth, ear, 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/stiff; 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  
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 – Plant Biology  
Know the structure of plants (**stem, petal, leaf, flower, roots, seed, bulb**)  
Observe plants  
Name common plants (**daisy, dandelion, nettle, dock**) and trees (**oak, willow, pine**)  
Know the structure of trees (**leaf, blossom, fruit, roots, trunk, branches**) and seasonal changes  
Use magnifying glasses to observe  
  
Spring – Summer 1  
**Observe plant growth**  
**STATISTICS: Draw and 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?**

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 2s, 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 Biology  
What does a plant need to grow? **Air, light, water, soil**  
Bulbs and seeds; Plant lifecycle  
  
**Factors which affect a plant's growth**  
  
**STATISTICS – Read information from simple tables;**  
**Ask and answer questions about totals and comparisons 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?**