



# Knowledge Organiser



<b>Subject:</b>	Science
<b>Year Group:</b>	Reception

## Prior/Background Knowledge:

Children should start school:

-Having had experience of hands on exploration of natural materials. They should be able to talk about what they see and explore how things work. Children should have had experience of planting seeds, lifecycles and caring for the environment. They should talk about forces they feel and differences between materials.



## The Natural World ELG

Children at the expected level of development will:

- Explore the world around them, making observations and drawing pictures of animals and plants.
- Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class.

## Autumn 1:

After reading Handa's surprise children investigate making a fruit salad- talking about the taste and texture of the food.

Children will learn about **Autumn** and go on an Autumn walk to investigate.

## Autumn 2:

As part of our transport topic children learn about space travel and the astronaut Tim Peake. They learn about Earth, Sun, Moon, planets and stars.

Linked to Mr Gumpy's Outing; children will investigate **floating and sinking**. They will see how many small world people can fit into a boat before it sinks.

**Light and dark:** children will investigate making shadows and will use our light box.

As part of our preparations for Christmas; children will **bake** Christmas biscuits and see how heat changes the ingredients'.

### Spring 1:

Children will learn about **Winter** and go on a Winter walk to investigate. As part of the winter topic we will learn about **hibernating animals**.

Children will learn about **healthy** and **unhealthy** food. They will **plant** some fruit/veg in our EYFS garden.

During a snowy/icy week children will experiment with **freezing** and **melting**. They will leave ice in different places to see which position melts it first. They will also leave small toys in water overnight to see if they will become frozen.

### Spring 2:

We learn all about **plants** and **flowers**. Children plant their own **bean seed** and watch it grow. They learn about the **parts of a flower and tree**.

During this half term we look at **climate change** and **environmental issues** linked to a relevant news story.

Children will learn about **Spring** and go on a Spring walk to investigate.

### Summer 1

We look after our very own **caterpillars** and **tadpoles**. We learn about their lifecycles and monitor their growth and change.

We learn the names of **animals, their babies and their homes**.

We learn that **dinosaurs** are extinct and look at **fossils linked to Mary Anning**

Children make their own **bird hide** and **bird feeders**- learning the names of some garden birds.

We do a lot of gardening in this half term and learn how to take care of our plants and flowers.

### Summer 2:

Children will learn about **Summer** and go on a summer walk to investigate. Children learn how to keep healthy in Summer.

Children learn about sea creatures and their habitats.

### Key history vocabulary:

Seasons- autumn, winter, spring and summer

Floating and sinking

Light and dark

Materials, change, heat, freezing, melting

Animals and baby names

Hibernating

Healthy/unhealthy

Plant, flower and tree names. Parts of a plant and tree