

## Science Y2 Spring 1 – Living things

In this unit of work the children will find out what the terms living, dead and never been alive mean. They will sort a variety of objects into these 3 categories and give reasons for their choice. They will investigate what the term 'basic needs' and 'survival' mean by imagining themselves stranded on a desert island and thinking about what will keep them alive.

### In this unit children will:

- Understand what is meant by the terms living, dead and never been alive.
- Sort and classify things that are living, dead and never been alive.
- Compare things that are living, dead and never been alive.
- Know what the term 'basic needs' means.
- Know what the basic needs of humans for survival are.
- Know that things 'for happiness' are very different from things needed to survive.
- Describe how animals and humans change as they grow

### Prior Learning

**FS** Know similarities/differences between living things

**Year 1** Naming a variety of common living animals such as fish, reptiles, birds and mammals. Identifying and labelling parts of the human body and the associated senses.

### Cross Curricular Links

**Maths** – Sorting and grouping

**Geography** – The United Kingdom is an island

**History** - Timelines

### Key Vocabulary

**Living** – Living things represent the key characteristics of life. They all show movement, respiration, sensitivity, nutrition, excretion, reproduction and growth.

**Dead** – Something that was once living, but is no longer showing the characteristics of life.

**Never been alive** – Something that has never shown any of the characteristics of life.

**Compare** – To look at the similarities and differences.

**Basic needs** – The things you need to keep you alive.

**Survival** – When a human or animal continues to live.

**Essential** – It is extremely important

**Non-essential** – It is not important

**Timeline** – A line which shows something in order

**Stages of life** – The different times in a Human's life

## Key Knowledge

- There are things which are living, dead and those which have never been alive.
- There are 7 key characteristics of living things – movement, reparation, sensitivity, nutrition, excretion, reproduction and growth.
- Dry leaves which are on the ground are dead but were once alive on a tree.
- Bones were once part of a living animal, but are now dead.
- Anything metal, plastic or stone has never been alive.
- The basic needs for animals, including humans for survival is water, food and air.
- Knowing what you want, for survival and knowing what you need, for survival are very different.
- Things which you want are to make you comfortable and happy, but are non-essential.
- Things what you need are essential to keep you alive.
- What animals need for survival may be similar or different to what humans need depending on the animal.
- Mammals give birth to babies.
- Reptiles, birds lay eggs which hatch.



- Animals start as young life, get older, bigger and can go on to have children of their own. This is called a life cycle.
- One of the most amazing lifecycles in nature is the lifecycle of a butterfly. It starts as an egg, hatches into a caterpillar, builds a chrysalis around itself and then will hatch as a butterfly.

## Key Questions

- Can you name something that is dead, alive and has never been alive?
- What is essential to survive?
- What would you need if you were stranded on a desert island?
- What would you want if you were stranded on a desert island?
- How do these things differ?