



Science has changed all our lives and is vital to the world's future prosperity. All children will be taught the essential aspects of the knowledge, methods, processes and uses of science. Through building up a body of key foundational knowledge and concepts, we aim for all our pupils to recognise the power of rational explanation and develop a sense of excitement and curiosity about natural phenomena.

Key concepts

Foundation
Stage

To study and understand better, the wide range of living organism that can be found on our planet by focusing on: morphology, physiology, anatomy, behaviour, origin and distribution.

Year 6

You are ready for the next step in your journey. Remember to dream big!

Evolution & Inheritance

Children will build on their learning from the Y4 unit 'Living things and their habitats' by looking at the changes to living things over time and apply their understanding from Y3's unit 'Rocks' to understand how fossils have helped us to identify and begin to understand these changes and how living things have adapted to their environments. They further develop their learning from Y2 and Y3 to investigate the impact of diet and exercise and develop an understanding of the circulatory system. Children build on their learning from Y4 to describe the classification of living things based on characteristics, similarities and differences and give reasons for their classification

Children will further develop their understanding of humans by describing changes as humans develop to old age. Children will extend their knowledge of living things by describing the life processes in some plants and animals. They will be able to describe the differences in the life cycles of the animal groups already looked at in Year 1 'Animals including humans' area of study.

Living things and their habitats

6

Living things and habitats

Children continue their understanding of animals, including humans, from Year 2, by identifying the importance of nutrition. They will identify, and understand why; humans and some animals have skeleton and muscles.

Children will continue to build on their learning about nutrition in humans from Year 3, by identifying the different teeth types; and how these form part of the digestive system. They will continue to think about nutrition by constructing and interpreting a variety of food chains building on their prior learning from Y2. Children will continue to develop their understanding of habitats by understanding that living things can be grouped in different ways and exploring this, through the use of classification keys. They will recognise that environments can change and that this can sometime pose a threat to living things.

4

Animals including humans

Living things and habitats

5

Animals including humans

Plants

Children will deepen their understanding of the parts of a plant looked at in Year 1, to identify the functions of the different plant parts, including the parts of a flower, vital for seed formation ready for the study of a plants life cycle in Year 5. They will further their understanding of what plants need to grow well looked at in Year 2, through investigations of how water is transported within plants. They will be able to group rocks based on appearance and properties and begin to understand how fossils are formed.

Children will build upon their prior knowledge of plants to identify what plants need in order to grow well. They will observe and describe how seeds and bulbs grow into mature plants. In humans, they will be able to identify the importance of exercise, types of food and hygiene in preparation for their next step of learning in Y3 and Y6. They will build on their understanding to describe the basic needs of all animals (water, food and air), begin to draw simple food chains and examine habitats and the living things which live in them.

Rocks

Animals including humans

3

Animals including humans

Living things and habitats

Children will be able to group rocks based on their appearance and simple physical properties and will understand that soils are made of rock and organic matter. They will develop an understanding of how fossils are formed in preparation for Y6.

Children will continue to build upon their previous observations of plants/animals by identifying a variety of common plants, being able describe their basic structure also identifying some animals are carnivores, herbivores and omnivores. Children will be able to label the basic parts of the human body. Children will continue to build on their earlier observations to observe and record changes in weather associated with the seasons and how the length of the day changes through the year.

EYFS

Seasonal changes
Plants
Living things

1

Plants
Seasonal changes
Animals including humans

2

Plants

Children will look be encouraged to explore the world around them and, based on their experiences and what has been read to them, they will make observations and draw pictures of plants/animals they see, comparing them, and identifying similarities and differences. They will begin to understand some important processes in seasonal changes using their noticing skill.

REACH for your dreams—Together as Biologists!

