

Newquay Primary Academy – Spring Term 1 Sequence– Science



RECEPTION

I wonder what is out of this world.

Prior knowledge...

Children explore collections of materials with similar and/or different properties

YEAR 1

Seasonal changes

Prior knowledge...

Children ask questions about the natural world. They will understand some important processes and changes around them including the seasons.

YEAR 2

Living things and their habitats

Prior knowledge...

Children will have an awareness of different types of animals and the habitats they live in.

INTENT

To explore environments on different planets. To describe what happens in the winter to our environment and the weather.

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

To identify and name a variety of plants and animals in their habitats, including micro-habitats. To describe how animals obtain their food from plants and other animals, using a simple food chain, and identify and name different sources of food.

VOCABULARY / STICKY KNOWLEDGE

Space, planets, Earth, Mars, Venus, Saturn, Uranus, Neptune, Mercury, Jupiter, Solar System, International Space Station, Experiments, Mars Rover, robots, astronauts, rocket, gravity. Carnivore, Herbivore, Omnivore, prey, predator. Weather, sunny, rainy, raining, windy, snowy, cloudy, hot, warm, cold, storm, sleet, snow, icy, frost, seasons, winter, spring, light, dark.

Weather, sunny, rainy, raining, shower, windy, snowy, cloudy, hot, warm, cold, storm, thunder, lightning, hail, sleet, snow, icy, frost, puddles, rainbow, seasons, summer, spring, autumn, Sun, sunrise, sunset, day length

Living, dead, never been alive, suited, suitable, basic needs, food, food chain, shelter, move, feed, water, air, survive, survival, names of local habitats (e.g. pond, woodland etc.), names of micro-habitats (e.g. under logs, in bushes etc.), conditions, light, dark, shady, sunny, wet, damp, dry, hot, cold, names of living things in the habitats and micro-habitats studied

SEQUENCE OF LESSONS

1. Recognise environments are different on the planets in our solar system and understand why our planet looks green and blue from space.
2. Understand how astronauts travel from Earth to different places in Space.
3. To observe photos and videos from the ISS and Mars Rover.
4. To explore and discuss forces whilst using the messenger rocket.
5. Learn about gravity and the effects it has on us.
6. Compare different dinosaurs and learn how to distinguish carnivores and herbivores.
7. Weather and Seasons. To observe and talk about changes in Winter and Spring.

1. To observe and describe how day length varies in the context of spring and summer.
2. To observe changes across the 4 seasons by looking at how trees and the clothes that we wear change in spring and summer.
3. To observe and describe weather associated with the seasons by observing and recording the weather (Spring and Summer).
4. To gather and record data to help in answering questions by recording the weather, temperature, rainfall and wind direction.
5. To observe changes across the 4 seasons by exploring how some animals adapt to survive in different seasons.

1. To visit a local farm (sweets dairy) to learn how animals (Cows) obtain their food from plants and other animals, using a simple food chain, and identify and name different sources of food.

OUTCOME / COMPOSITE

The children will be able to explain some differences between Earth and other planets in our solar system. They will be able explain what a carnivore/herbivore is.

Children will create a mini film to explain the characteristics of spring and summer.

Children will create a video in the style of David Attenborough to describe how animals obtain their food from plants and other animals, using a simple food chain, and identify and name different sources of food.