

Newquay Primary Academy – Summer Term 1 Sequence– Science



RECEPTION
I wonder what grows.

Prior knowledge...
Children have planted seeds and cared for growing plants.

YEAR 1
Plants

Prior knowledge...
The children will be able to explain differences and similarities in mini beasts and habitats.

YEAR 2
Plants

Prior knowledge...
Children will have been taught to name and identify a variety of common, wild and garden plants.

INTENT

To describe different life cycles.
To identify the key parts of a flower
To identify and name a variety of animals that are carnivores, herbivores, omnivores, predators, prey and mini beasts.

To identify and name a variety of common wild and garden plants, including deciduous and evergreen trees.
To identify and describe the basic structure of a variety of common flowering plants, including trees.

To observe and describe how seeds and bulbs grow into mature plants
To find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.

VOCABULARY / STICKY KNOWLEDGE

Carnivore, Herbivore, Omnivore, predator, prey, mini beast, arachnid, insect, crustacean, life cycle, seed, seedling, roots, stem, leaves, flower, petal, animal, habitat, shelter.

Leaf, flower, blossom, petal, fruit, berry, root, seed, trunk, branch, stem, bark, stalk, bud, names of trees in the local area, names of garden and wild flowering plants in the local area

Light, shade, Sun, warm, cool, water, space, grow, healthy, bulb, germinate, shoot, seedling

SEQUENCE OF LESSONS

1. Explore the natural world around us, using our bug hunting bags to investigate the mini beasts we discover, explaining similarities and differences.
2. Document the changes that happen to our class caterpillars in my butterfly diary.
3. Plant seeds/bulbs in the garden and explore what they need to survive. Measure to discover who's sunflower grows the biggest.
4. Make accurate observations when I paint animals in water colour and plants from the garden.
5. Discuss the contrasting environments some animals live in compared to a domestic pet.
6. Visit the Eden Project to learn about flowers that attract insects.

1. Making observations - To describe and compare plants, seeds and bulbs.
2. Parts of a plant -To name and compare the parts of plants.
3. Garden and wild plants - To identify and name some common garden and wild plants.
4. Terrific trees - To identify and name some common trees.
5. Fruit and vegetables - To name, sort and compare some common fruit and vegetable plants.
6. Comparing plants - To name and compare some common plants and trees.
7. Eden Project visit to identify and name a variety of common wild and garden plants.

1. What do plants need to grow? –
2. To design and set up a test to find out what plants need to stay healthy.
3. What's inside a seed? –
4. To look closely at the parts of a seed that will grow into a plant and explain how it will germinate.
5. Life cycle of a plant –
6. To describe the life cycle of a plant.
7. What do plants need to stay healthy? 1- To explain what plants need to grow and stay healthy.
8. What do plants need to stay healthy? 2 - To describe what happens if plants don't get all the things they need.
9. How do plants grow in hot, dry and cold places? - To explain how plants are suited to their habitat.

OUTCOME / COMPOSITE

The children will be able to explain differences and similarities in mini beasts, seasons, domestic pets and habitats.

To grow a plant (sunflower) and observe changes.

To grow strawberries (from small plants) and invite parents in for a cream tea picnic using home grown strawberries.