Year 3 – Rooting for You

Prior Learning: Children know basic parts of plants, that seeds and bulbs grow when have basic needs met, and know what germination is.

Concept: Living things

In this unit we will understand more complex needs of a plant and how it is adapted to survive and make new plants!

Working scientifically:

Gather and record results

Observe closely

4. To understand the life cycle of plants

We will explore life cycle of dandelions, sunflowers, oak trees and potatoes comparing the similarities and differences.

Pollination is when pollen is transferred from one plant to another.

1.To identify and describe parts of plants and their functions

We will recap main parts of plants including roots, stem/trunk, leaves and flowers and learn what job each part does to help the plant survive! Find a weed outside and label the parts and describe what it does?

Plants have roots, stems, leaves and sometimes flowers.

5.To explore the role of the flower

We will explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.
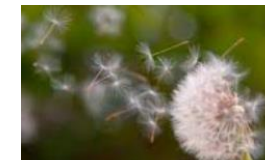
Flowers play role in fertilisation and seed dispersal

2. To explore requirements of life for a plant

Do you remember the basic needs of a plant from Year 2 (water, light, temperature)? What else could they need? We will investigate if they need air, nutrients and room to grow by measuring the growth of cress.

Plants need air, nutrients and room to grow.

6. To explore seed dispersal techniques

We will learn about the various ways of seed dispersal and look at how the plants are adapted to suit these methods. Decide on a method you would disperse seeds to the widest area (exploding seed pods? Paper aeroplanes?) – design a way to plant some flowering seeds in the forest school!

EXPLODING SEED PODS

3. To investigate the way water is transported in plants

We will observe water transportation in celery and flowers and learn how plants transport water from the soil to its other parts.

Flower experiment bbc

Water is transported from the roots, through the tubes in the stem, to the tip of the plant.

Words we will know!

Germination

Water Transportation

Pollination

Seed dispersal

Fertilisation