



Year 3: Brilliant Botanists

1. Terms	Definitions
Nutrients	A substance that is needed to grow healthily. Plants get nutrients from the soil.
Photosynthesis	The process that plants go through to make energy from sunlight.
Pollen	It is a yellow, dusty powder, which comes from the male part of the plant.
Pollination	Pollen is transported (moved) from the male part of the plant to the female part, so they can produce seeds. Sometimes the pollen is moved by insects (insect pollination), and sometimes by the wind (wind pollination).
Seed formation	A seed is made.
Seed dispersal	When seeds are transported (moved) by the wind (wind dispersal), an animal (animal dispersal) or by water (water dispersal).
surface	The part of an object we can see. It might be shiny or matt (dull).
Transparent	When you can see through a material, e.g. clear glass.
Translucent	When you can see light through a material, but no detail, e.g. tissue paper.
Opaque	When you cannot see any light through a material, e.g. a wooden stick.
Shadow	When a light source shines at a opaque object.
Reflect	When light bounces of a surface.

3. Light

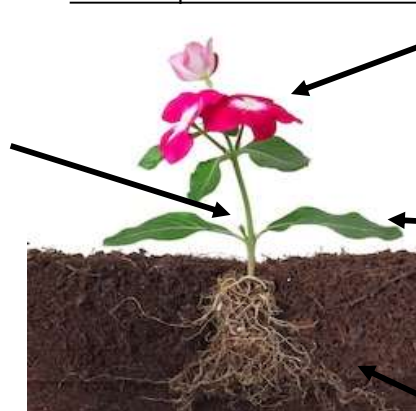
- **Dark** is when there is no **light (absence of light)**.
- Light travels in straight lines which is why we get **shadows**. **Shadows** move as the **sun** appears to move across the sky.
- The earth spins and that is why it looks as if the **sun** moves. This gives us night and day.
- The **sun** is the earth's main **source of light**.
- Fire, candles, torches and electric lights are also light sources.
- The moon is not a source of light. It reflects the light of the **sun**.



2. Plants

Parts of a plant and their functions:

Stem: holds the plant up and it takes the water and nutrients from the roots around the plant.



Petals: attracts insects and birds, so that they transfer pollen from plant to plant.

Leaf: takes the sunlight and turns it into energy (photosynthesis)

Roots: takes water and nutrients from the soil

- Plants need light, water, room to grow and nutrients from the soil for **life and growth**.
- Plants need different amount of water and **nutrients**. For example: tomatoes need lots of water, but a cactus does not need very much.

Seed Dispersal



Flowers disperse their seeds in different ways:

- wind like dandelion seeds
- animal like blackberry seeds
- water like coconut
- by bursting like violets seeds

Lifecycle of a Flowering Plant

