

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 moved from the male part of the plant to the female part, so they can produce seeds.
Seed formation	A seed is made.
Seed dispersal	When seeds are transported by the wind, an animal or by water.
Light source	Where light comes from, e.g. the sun is a light source.
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

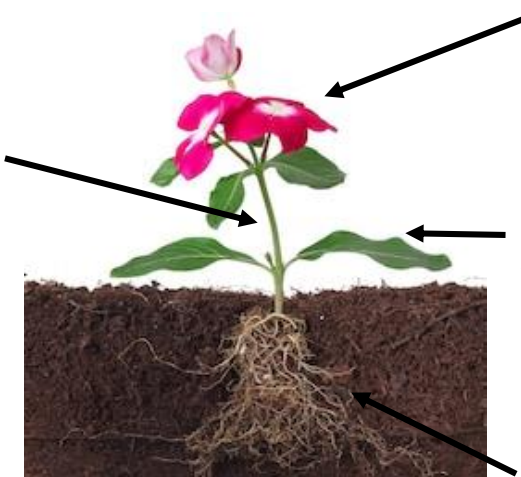
- Dark is when there is no light.
- Mirrors, water and traffic signs are good at reflecting light.
- Light travels in straight lines which is why we get shadows.
- Shadows move as the sun appears to move across the sky.
- The earth spins and that is why it looks as if the sun moves. This gives us night and day.
- The sun is the earth's main source of light.
- Fire, candles, torches and electric lights are also sources of light.
- The moon is not a source of light. It reflects the light of the sun.
- Never look directly at the sun. It is dangerous for your eyes.
- Without the sun, there would be no life on Earth.



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.
- Plants need different amount of water and nutrients.
 - For example: tomatoes need lots of water, but a cactus does not need very much.
- Flowers disperse their seeds in different ways.
 - Wind – e.g. dandelion seeds
 - Animal – e.g. blackberry seeds
 - Water – e.g. a coconut
 - By bursting – e.g. violets seeds



Sun Safety:

Light from the sun can be dangerous. This is how to keep yourself safe:



- Stay in the shade.
- Always wear sun cream and a hat.
- Drinks lots of water

