Pye Bank CE Primary DSAT Knowledge Organiser

YEAR 3 BIOLOGY: Plants What functions do the parts of a flower have? SCIENCE

KEY VOCABULARY

Dispersal: act of spreading seeds around.

Fertiliser: a material/substance you add to soil to increase the nutrients and help plants grow.

Fruit: a structure made by the ovary which helps disperse the seeds.

Nectar: a sugary liquid that insects drink to give them energy to flv.

Nutrients: taken from the soil through the roots that plants need to make energy, grow, develop, and reproduce.

Pollen: tiny grains made by the stamen which are needed by ovules in ovaries to make seeds.

Pistil: the female reproductive part of a flower.

Pollination: the act of transferring pollen grains from the male anther of a flower to the female stiama.

Pollinator: an animal or insect that causes plants to make fruit or seeds.

Reproduction: biological process by which new individual organisms – "offspring" – are produced from their "parents".

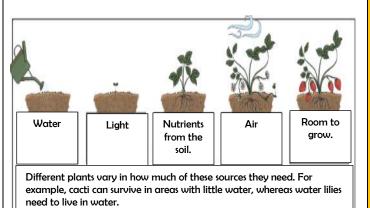
Stamen: a part of the flower which produces pollen at its tip, the male reproductive part of the plant.

Sepal: green leaf like structures at the top of the stalk.

Flower: the part of the plant which is concerned with reproduction.

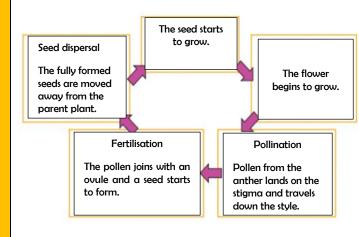
KEY CONCEPT

Requirements of plants for life and growth



KEY CONCEPT

Life cycle of a plant

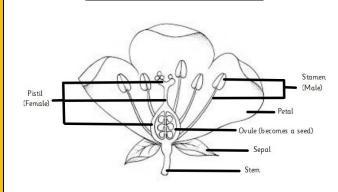


STICKY KNOWLEDGE

- Plants have male and female parts. The male part is called the stamen and this produces pollen.
 The female part is called the pistil and this is where the pollen needs to reach to make a seed for the plants lifecycle to continue.
- 2. Insects take the pollen to the female part of the flower, this then starts a process to make a seed
- After the pollination process has occurred, the flower then makes a seed to continue its life cycle – once this seed is made the process is complete.
- 4. The process of getting the seed from its parent plant is called dispersal and that can happen in a variety of ways dependent on the plant.

KEY CONCEPT

Labelled diagram of a flower



Plants have male and female parts. The male part is called the Stamen and this produces pollen.

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KEY CONCEPT

Diagram to show seed dispersal

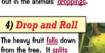
Seed Dispersal is Scattering Seeds

Seeds are <u>dispersed</u> or <u>spread out</u> so that they can grow <u>without</u> too much <u>competition</u> from <u>each other</u>. Here are some ways in which the seed can be dispersed:





2) Animal dispersal



when it hits the ground



catch

animals'

and the seeds roll out.

The seeds then tend to be further dispersed by animals.