



PLANTS





In this pack we will learn to:

Identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers.

Explore the requirements of plants for life and growth.(air,light,water, nutrients from soil and room to grow)

Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.

Flowering Plants





What is a flowering plant? Do you know?

Flowering Plants

- A flowering plant is a plant that produces flowers.
- Have you ever wondered why plants have flowers ?
- The flowers produce seeds to make new plants grow.
Lets find out more.....



What is a flower?

- A flower is a very special part of the plant and its job is to create new seeds so that new plants can be grown .
- It usually has petals and a nice smell too.
- The flower has lots of different parts that all help to make the seeds.



The parts of a flower.

- The parts of a flower are called :
- **petal**
- **pollen**
- **stamen**
- **carpel**
- **ovary**
- **sepal**
- **stem**



The parts of a flower

- **Petal**
- Insects or other animals land on the petal to get the pollen.
- Petals also protect some parts of the flower.
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- **Pollen**
- Pollen is like a powder plants make to help form seeds, new plants then grow from the seeds.
- When an insect visits a flower bits of pollen stick to it, when it goes to another flower the pollen lands on the sticky stigma.

Parts of a flower

- **Stamen**
- The stamen is the part of the flower that produces the pollen.

- **Carpel**
- The carpel is in the middle of the flower and produces the seeds. At the top is the **stigma** that catches and collects pollen. At the bottom is a long tube that connects to the **ovary**.

- **Ovary**
- The ovary is where the seeds grow.

Parts of a flower

- **Sepal**
- Sepals protect the flower as the buds start to grow and when the petals are in bloom.
- **Stem**
- The stem of a plant carries water and nutrients to different parts of the plant.

Pollination and Fertilisation



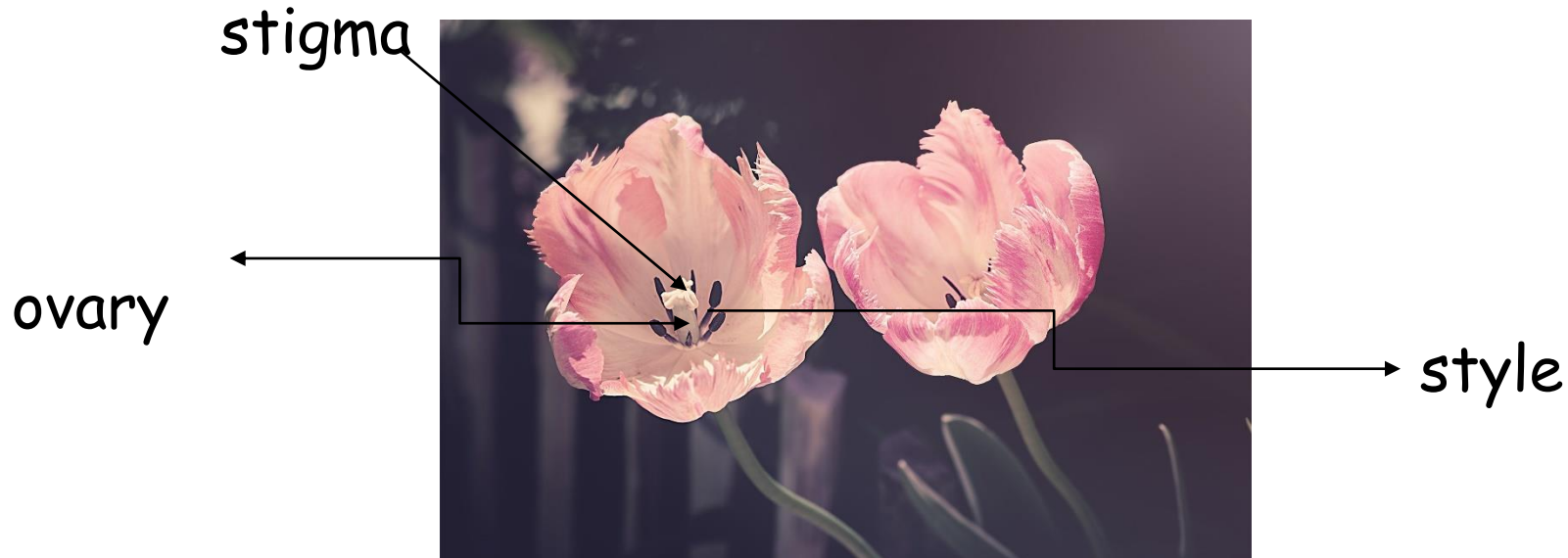
What is Pollination and Fertilisation

- Pollination happens when pollen from the carpel touches the stigma.
- Bees, butterflies and other insects like the bright coloured petals and the smell of the flower.
- They land on the flower and drink the sweet liquid called nectar.



Pollination and Fertilisation

- The pollen on the stigma travels down the style towards the ovary.



Pollination and Fertilisation

- Once it reaches the ovary, pollen joins with an ovule and can then grow into a seed. This is what we call Fertilisation.
- Seeds grow inside the ovary.
- You can see the peas here growing in the picture.



What does a plant need to grow?



Plants need air, light, warmth,
water and nutrients to be healthy.



What are the parts of a plant?

Leaves

help to
make food
for the
plant.



Roots

anchor
the plant
in the soil.

Stem keeps
the plant
upright and
let it grow
towards
the light.

What a plant needs to grow.

- A healthy plant has green leaves.
- It needs air, light, warmth, water and nutrients to be healthy and grow.
- If a plant doesn't have light it won't stay strong.
- If a plant doesn't have water its stem will go dry.

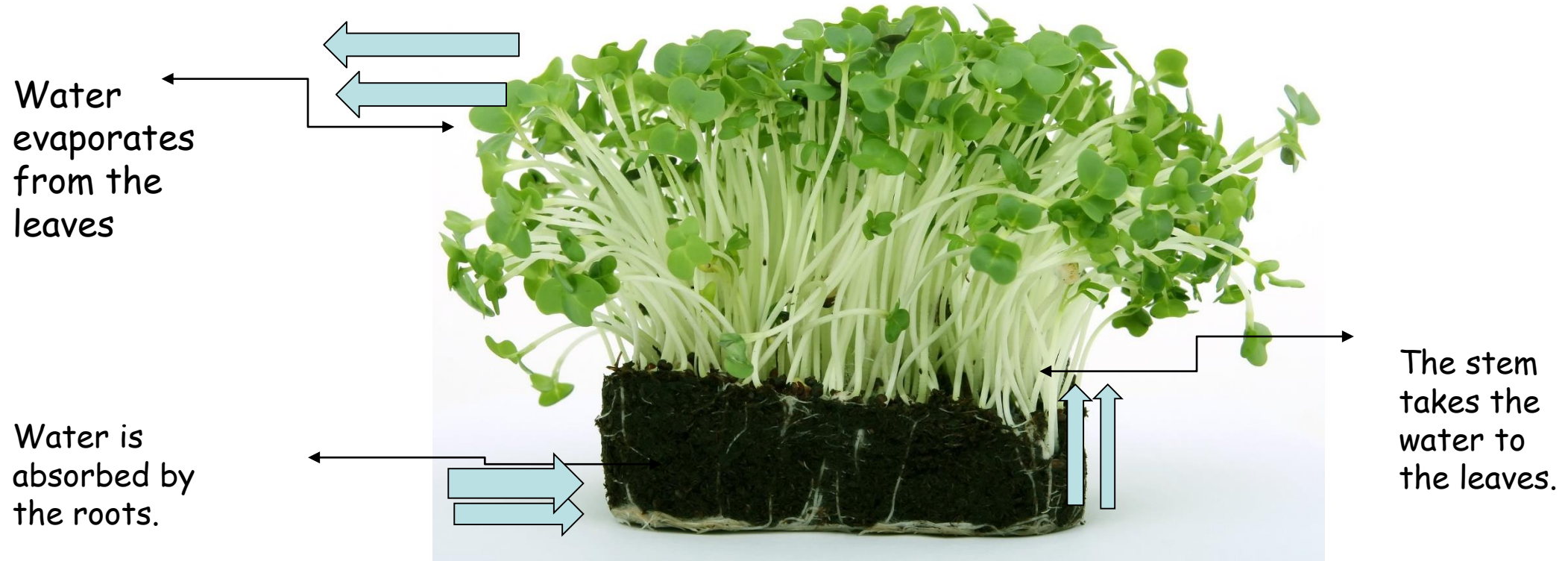


What a plant needs to grow

- If a seed doesn't have warmth it won't grow into a plant at all.
- The seed needs warmth to grow from a seed to a healthy plant.
- The seed gets nutrients (food) from the soil as it grows.
- It is important the plant has all these things to grow healthily

Water Transportation

How water travels through plants



Water Transportation

- These are the steps of how water moves through a plant:
 - 1) The roots take water from the soil.
 - 2) The stem carries water to the leaves.
 - 3) Water goes into the air, (evaporates) from the leaves.
 - 4)Evaporation causes more water to be sucked up the stem.
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- The water is sucked up the stem just like we drink through a straw.



The End

- I hope you have enjoyed learning about Plants, what they need to grow, how they take in water and why plants have flowers.



- Now lets see what you can remember and try some of the activities.