Year 3 Home Learning Summer Term

Science

This term in science, we will be learning all about flowering plants. Including the different parts of a plant and their jobs. This work will build upon what you learned about plants in Year 2.

1 True or False?

Let's see what you already know about plants!

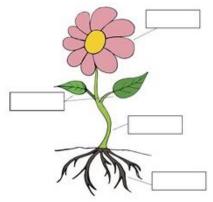
Can you sort these statements about plants into true or false?

- Trees are plants.
- Roots put water into the soil from the plant.
- All plants are green.
- Plants get all that they need from their roots.
- Plants can grow from seeds and bulbs.
- Flowers only need sunlight to be healthy.
- Roots take water from the soil around them.
- Plants make their food in their leaves.
- All trees make fruit we can eat.
- Some plants eat meat.

Challenge: Can you add two more points to your True section about plants.

2 The Parts of a Plant

Below is a diagram of a flowering plant. Can you copy it out and label the different parts?



Once you have labelled it can you match the following descriptions to each part to say what they do?

- This attracts insects for pollination and is where the seeds are made.
- These are the first part of a plant to grow out of the seed/bulb. They stop the plant falling over and absorb nutrients and water that the plant needs to grow.
- This holds the flower up and transports water and nutrients around the plant to where it is needed.
- These take in sunlight and carbon dioxide to make food for the plant.

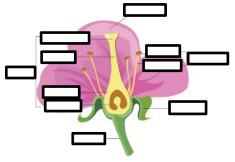
3 | Parts of a Flower

Many but not all plants have flowers, for plants that do their flowers are very important. Let's zoom in on the flower itself and see what each part is

Watch the following BBC Teach video which explains about all of the different parts of a flower:

https://www.youtube.com/watch?v=A5Pf4_LXyC4&list=PLcvEcrsF_9zLl1enZ2h4kF3 96AtH90d9F&index=3

Then copy or print (there is a larger version of this at the end of the document) and label the following diagram showing the different parts of a flower.



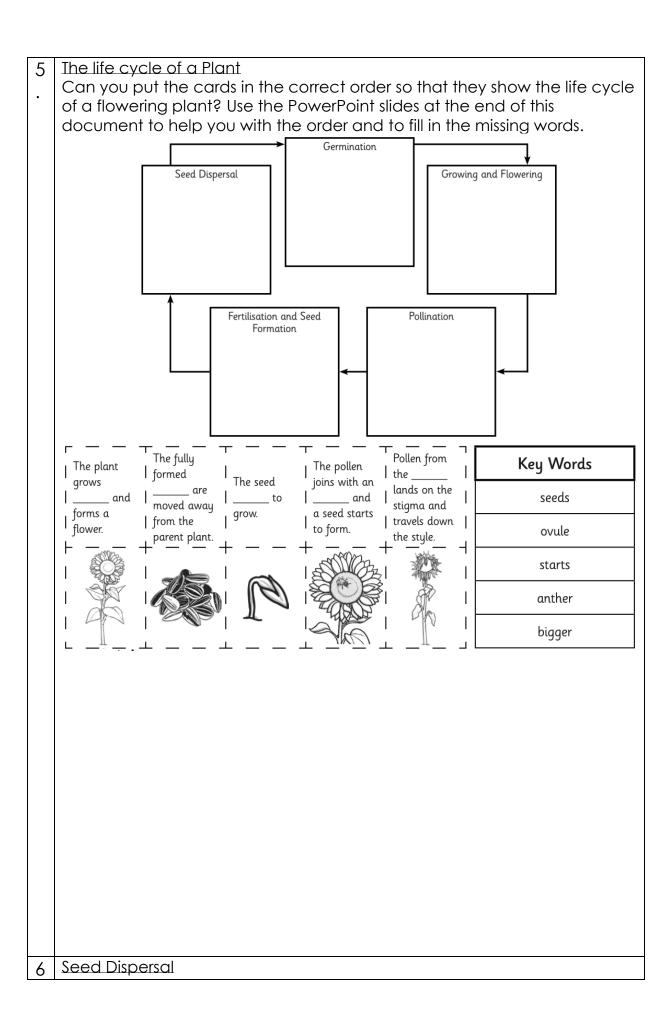
There is also a great interactive eBook on the parts of a flower on Twinkl, search 'parts of a flower eBook Twinkl' to find it on google.

4 Flower Food – Photosynthesis

Most plants make their own food in a process called photosynthesis. This process happens inside the leaves of flowering plants and trees (that's why it is important we don't pick all of the leaves off plants). Watch the following Dr. Binocs Show on photosynthesis and use it to help you put the missing words in the correct place to complete the paragraph. https://www.youtube.com/watch?v=D1Ymc311XS8

The of flowering plants have tiny all over			nyall over
their surface. Water that has been taken in by the			
evaporates through these pores. Plants make a			
substance called		in their leaves. This	
chemical is use	d to turn_	and	into food for
the plant. It also makes the leavesin colour.			in colour.
Word Bank			
air sunlight	stom roots	chlo nata _{'Y} reen	rophyll leaves

<u>Challenge:</u> There are a lot of different plants on our planet and some are very strange. For your challenge see if you can find three plants that are carnivorous, this means that they eat meat!



Plants use many different methods to spread their seeds far and wide. By doing this, plants are giving each seed more of a chance of becoming its own plant. Look at the four different methods below and sort the plants into how they disperse (spread) their seeds.

Flyers

These seeds are small and light enough to be blown away and dispersed by the wind. They might have wings, fluffy fibres on them or even feathery 'parachutes' to help them 'fly'.

Clingers

These fruits (containing seeds) get caught on the fur of animals that brush past the plant. They might have small spikes or hooks that attach easily to the fur of passing animals.

Tasty Treats

These fruits are irresistible to animals! They are often brightly coloured and juicy. The juicy fruits have hard seeds inside that can withstand passing through an animal's body. They land on the ground in the animal's droppings.

Pepper Pots

These fruits disperse their seeds when they are shaken. Just like a pepper pot, they have holes at one end. When they are shaken by the wind or passing animals, seeds fall out of the holes.

Dandelion

- •small seeds
- very light
- ·feathery 'parachutes'



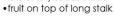
Burdock

- small fruits
- covered in spikes



Poppy

- •fruit grows holes in top · lots of tiny seeds inside





Goosegrass · 'sticky weed'

- •small, round fruits
- light
- · covered in tiny, hair-
- like hooks



Blackberry

- strong colour
- juicy fruit



Mulberry

- Bright colour
- ·lots of small seeds
- juicy fruit



Cotton

- •small seeds
- very light
- fluffy



Red Campion

- •round fruit with hole in
- ·lots of tiny seeds inside
- •fruit on top of long stalk



