

# What does each part of the plant do?



Flowers produce seeds which make new plants. They are brightly coloured so that insects like bees will be attracted to them.



The leaves use light from the sun to make food for the plant. They convert the light to energy. This process is called photosynthesis. Leaves are green because they contain a green substance called chlorophyll.



**NEXT** 

These pores are important because the leaves need to take in air as well as sunlight to make their own food. This process is called photosynthesis.

The leaves make a chemical called chlorophyll, which is used to turn sunlight into energy. It also turns the leaves green in colour!





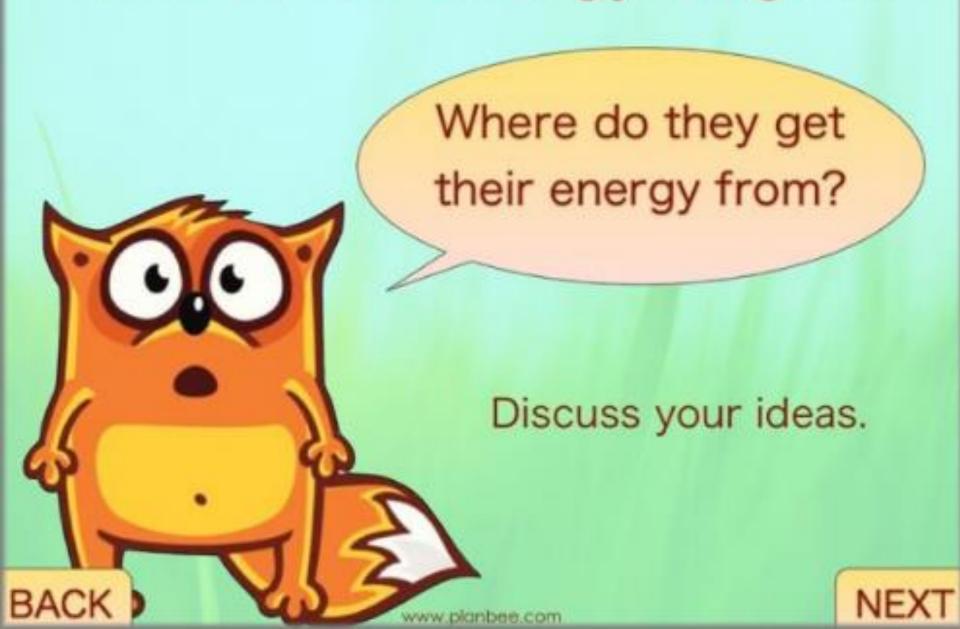
Do plants need food?



BACK

www.planbee.com

# Plants need energy to grow.





do flowers actually do? What is their purpose?





Discuss your ideas.

**NEXT** 

A flower is the reproductive part of a plant. In a flower, pollen grains and egg cells combine and grow into seeds; this process is called pollination.



BACK

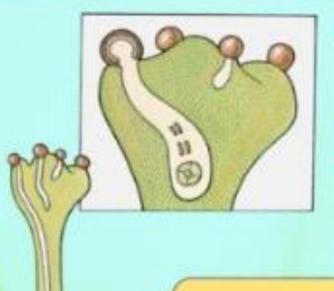
www.plgnbee.com

Although the flowers of different plants can look very different, they have the same parts. Flowers contain both male and female reproductive parts.



Before a flower opens, the green sepals around the outside of the flower help to protect it.

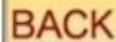
The stamen holds Anther pollen grains on the **Filament** anther, at the top of the filament. For pollination to occur, the pollen grains must come off the stamen and land on the female parts of flower. BACK www.planbee.ca



Fertilisation is when genetic information from pollen combines with an egg cell in the ovary of a flower.

Seeds then start to grow inside the ovary. The flower of the plant changes as the seeds grow. Let's find out more...





Once fertilised, the ovary of the flower starts to swell and grow. Seeds grow inside it, and the petals and stamen gradually fall off the flower.



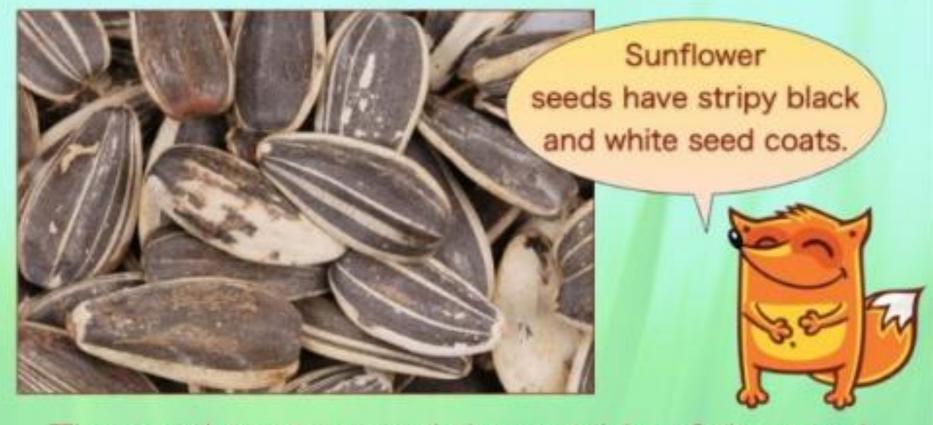
The ovary becomes a fruit! The pictures above are all of fruit growing on different flowering plants. Do you recognise them? Can you think of some more?

BACK

NEXT



A seed contains everything needed for a new plant to start growing.



The seed coat around the outside of the seed helps to protect it. It starts to absorb water and soften when the seed lands in soil.

BACK

NEXT

The seed leaves inside seeds are a rich food source, storing lots of energy. This means that they are a great food source for animals too! How many different seeds can you think of that form part of our diet? www.planbee.com

Inside the seed, a tiny root and shoot wait to grow out through the softened seed coat.







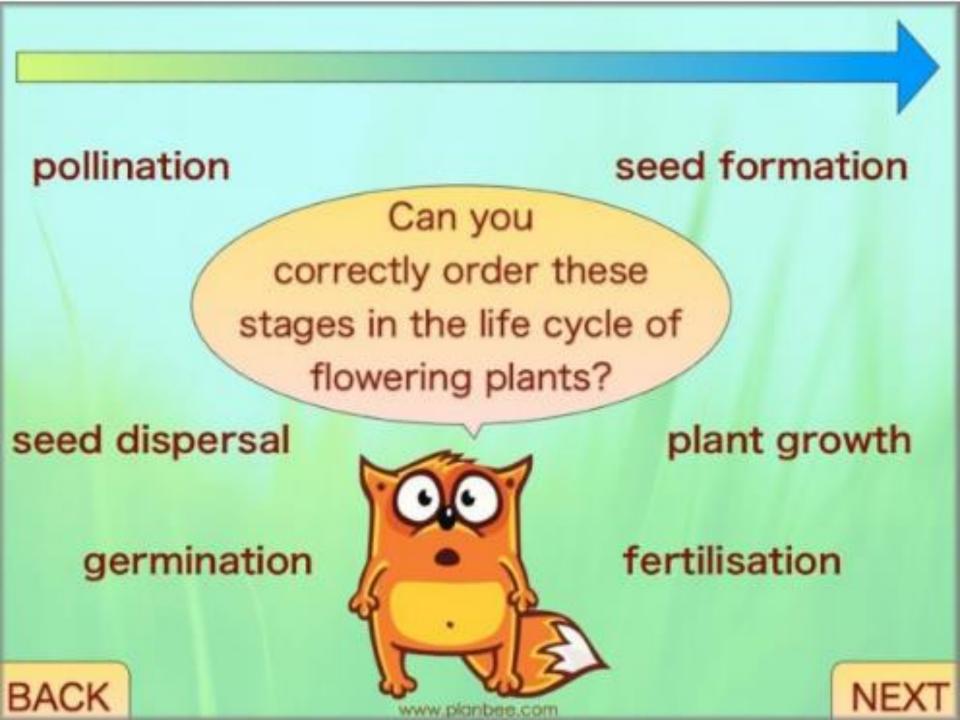
The root grows out first. This anchors the plant. It also means that the plant can start taking in water and minerals straight away.

The young root grows first, then the young shoot.



BACK

www.planbee.com



Germination Seed formation Seed dispersal DIANX GROWTH \*ETHIIS DATION DOMINATION Did you get it right? BACK

What is the name for the process of a new plant starting to grow from a seed?

fertilisation

pollination

seed dispersal

germination

BACK

NEXT

# Did you get it right?



germination





The picture you put together is a picture of the River Nile taken from space!

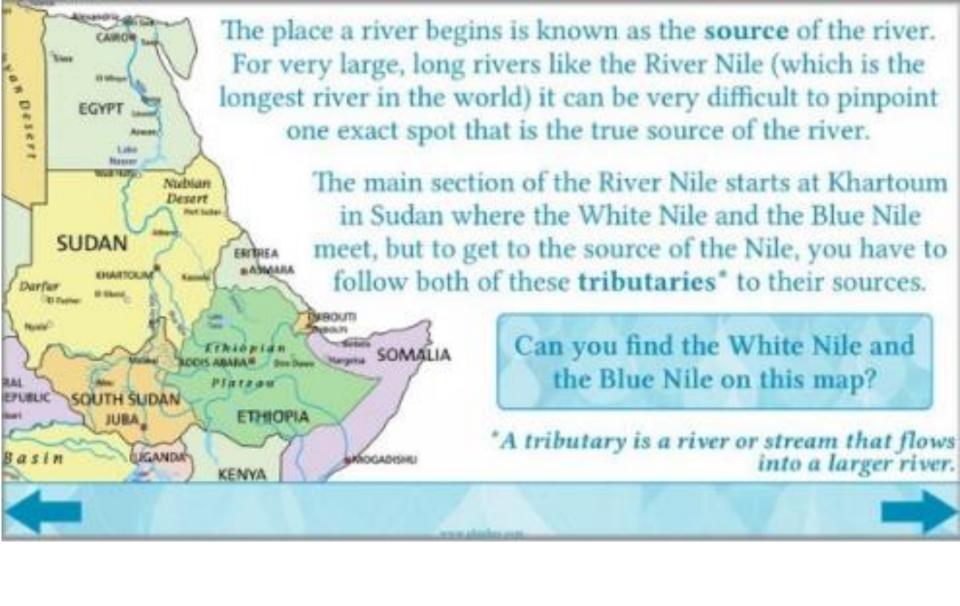


What can you tell me about the River Nile already?

Think, pair, share your ideas.









The Nile Delta is on the north coast of Egypt.

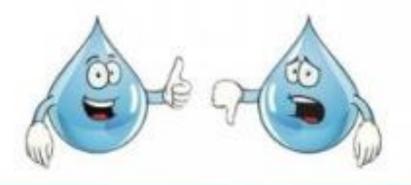
It is one of the most fertile areas in Egypt and some of the most important cities in Egypt have developed on the delta.

A delta is formed when a river slows down so much that it no longer has the power to carry along **sediment**. Instead, the sediment is deposited, which creates a landform. Rivers slow down as the land gets flatter. The River Nile starts off flowing very quickly in the high mountain areas but by the time it reaches Cairo, it has slowed down enough for a delta to form.



# The River Nile flows into the Mediterranean Sea.

## Is this true or false?







## The River Nile is 5438 km long.



Do you think this statement about the River Nile is **true** or **false**?



(We're not going to tell you yet - you'll have to find out yourselves later if your answers were right!)







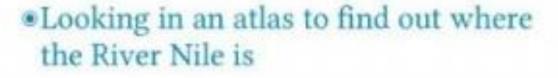
How do you think
we could find the answers
to these questions to find out
if they are true or
false?

What sources of information could we use?









- Using information books
- Looking up information on the internet
- Looking at pictures of the River Nile
- Asking experts

Did you think of any others that I missed?





#### Length

The River Nile is the longest river in the world. It is 6695 km long.

There have been many disagreements about the true source of the Nile (meaning where the Nile starts). Most people now agree that the furthest distance from the mouth (the end) of the Nile is the small streams in Burundi that feed into Lake Victoria.



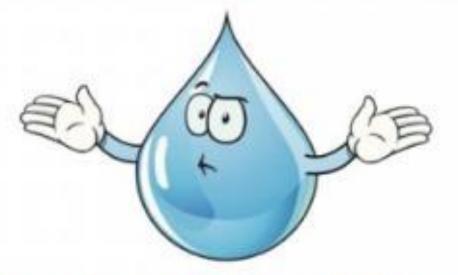
There are three different sections of the River Nile:

- The White Nile is a tributary of the Nile. This means it feeds into the main Nile. It starts at Lake Victoria.
- The Blue Nile is another tributary of the Nile. It starts in Lake Tana in Ethiopia.
- The White Nile and the Blue Nile meet in Sudan to form the main Nile River.





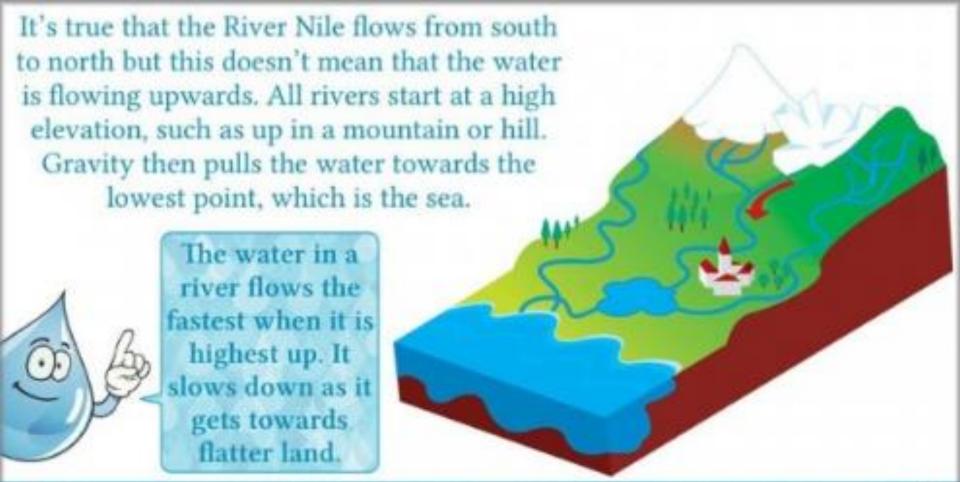
## Where does the River Nile begin?



Where does the River Nile end?





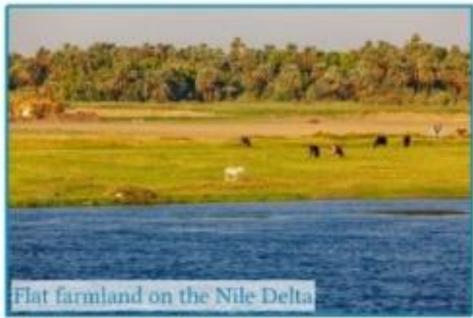






The Nile Delta has the most fertile land in Egypt thanks to all the sediment that is deposited there. This means that many of Egypt's biggest and most important towns and cities have developed on the delta. Nearly half of all the people who live in Egypt live in the delta region.











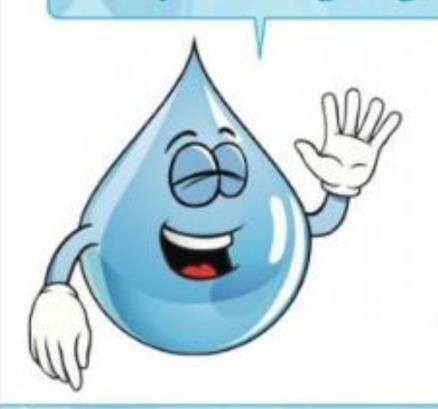
During the time of the ancient
Egyptians, the River Nile
flooded each year. This was
because of the monsoon season
high up in the Ethiopian
mountains that feed into the
Blue Nile. The monsoons meant
there was much more rain and
therefore much more water that
fed into the river.

When the floods subsided, it left a black sediment that was very fertile. This meant that the ancient Egyptians were able to grow lots more crops because the silt (sediment) gave the plants lots more nutrients than they would have had. It was the annual flood that enabled the ancient Egyptian civilisation to grow and flourish.





### Today we are going on a trip to the Nile Delta!



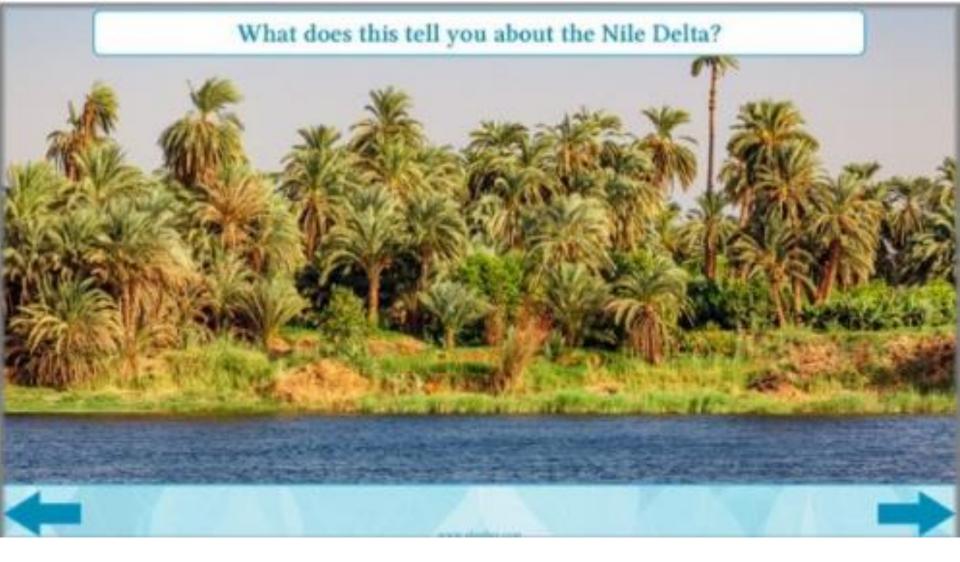
What do you think we will need to take with us?

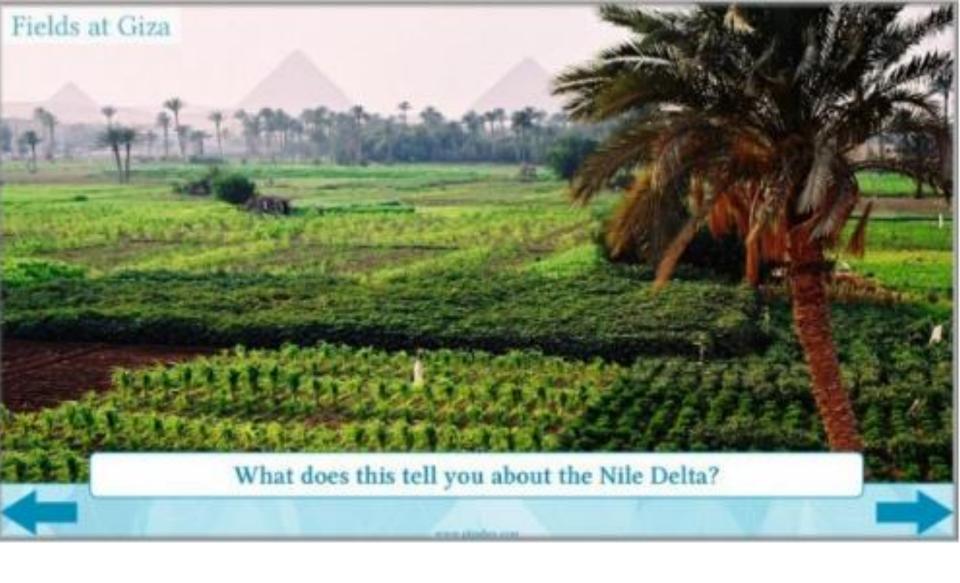
What kind of clothes will we need? Why?

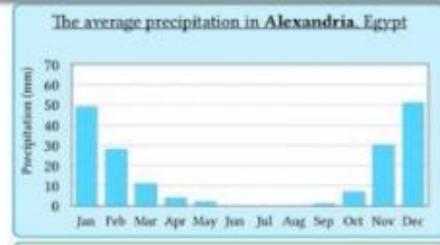
What do you think we might see there?

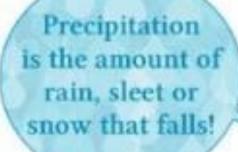




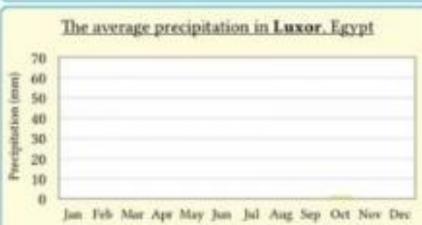


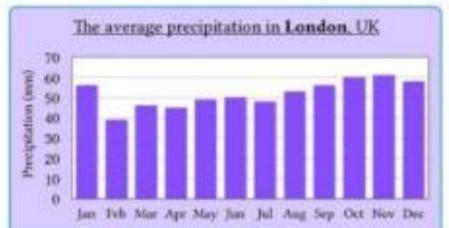












What does this tell you about the Nile Delta?



The River Nile was more important to the ancient Egyptians than to modern Egyptians.

The River Nile is more important to modern Egyptians than to the ancient Egyptians.



Which of these statements do you most agree with? Why?





Black to content page

#### The Nile in the Past

It was thanks to the River Nile that the ancient Egyptians became one of the first great civilisations on Earth.

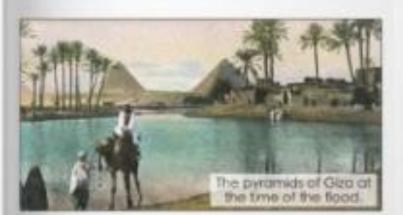
Most of the historical sites from ancient Egypt are located along the banks of the Nile.

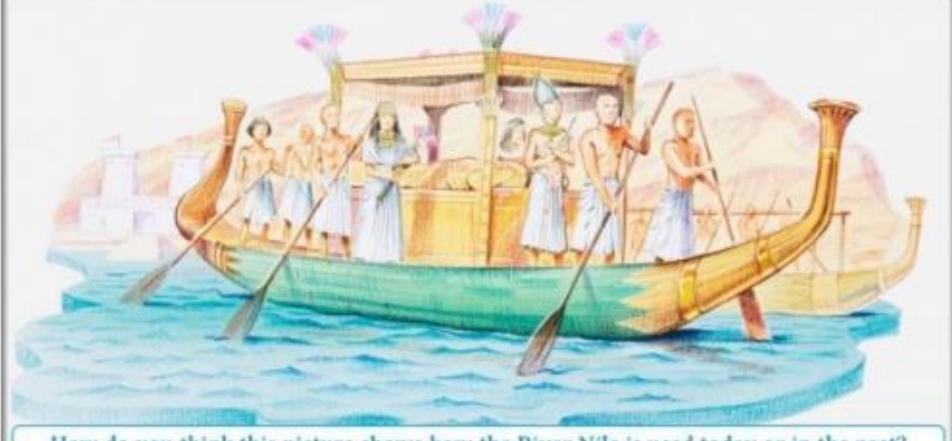


The ancient Egyptians used the Nile for growing crops, drinking water for both people and animals, washing, cooking, transportation and many other things. The River Nile flooded every year between June and September. After the flood died down, it left a thick, black mud behind which was excellent for growing crops. It was thanks to the annual floods that the ancient Egyptian civilisation was able to survive and thrive.

#### FACT

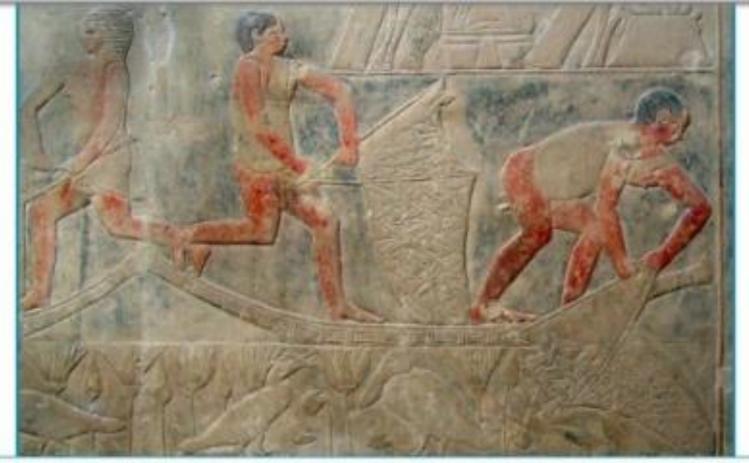
The ancient Egyptians called the Nile the 'Aur' which means 'black'.





How do you think this picture shows how the River Nile is used today or in the past?





How do you think this picture shows how the River Nile is used today or in the past?



So how many uses for the River Nile can you think of now, either today or in ancient Egypt?

Uses for the River Nile:

