

Science!

Plants: Their parts and what they need to grow



Science!



Objectives

- To be able to label the parts of the plant.
- To know what plants need for growth.



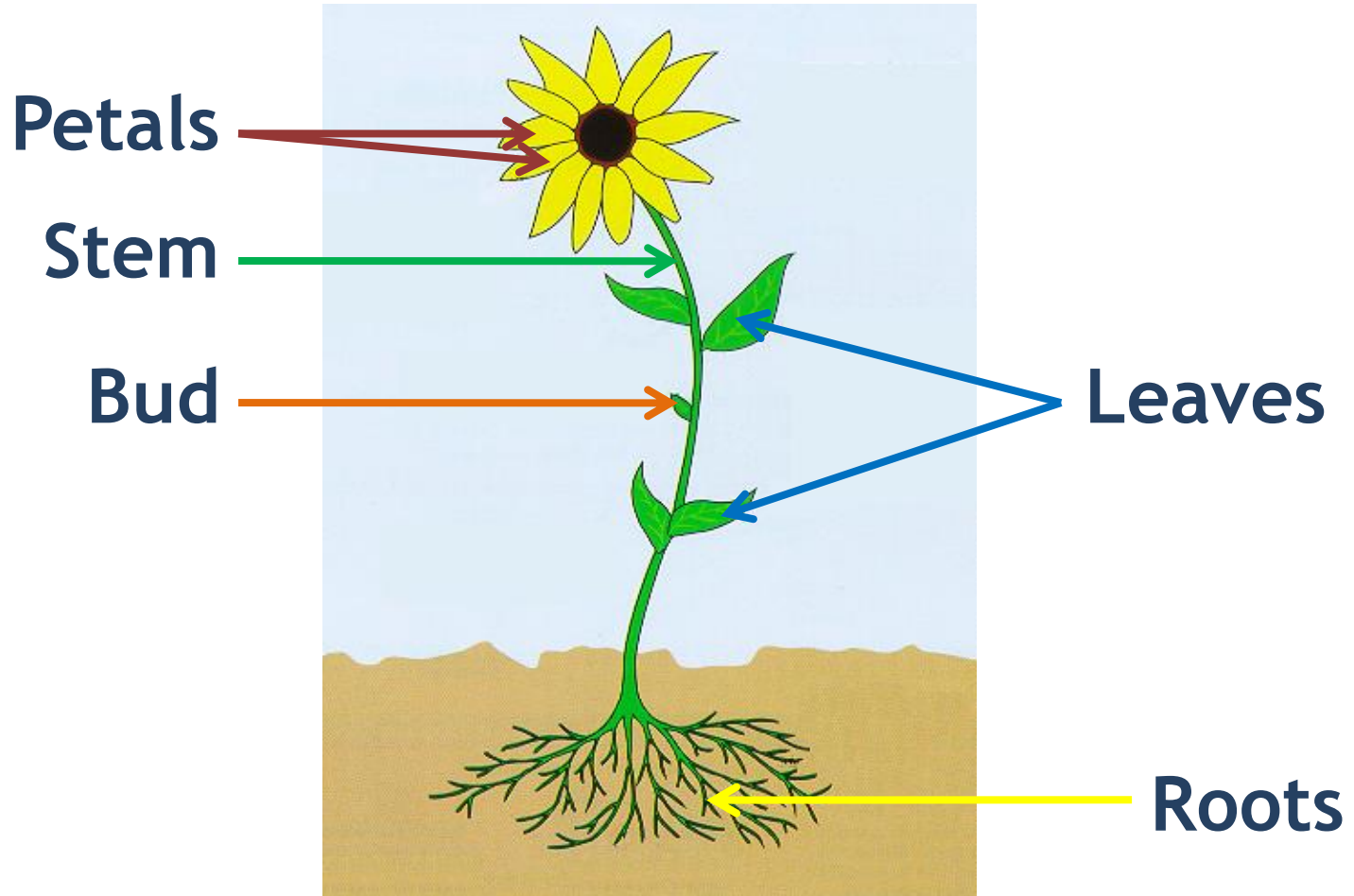
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**Can you label the
different parts of
the plant?**

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Let's have a go at labelling this flower.



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Quick note!



1 petal



2 petals



1 leaf



2 leaves

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What plants need to grow



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**We need to eat food
and drink water to
grow.**



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Plants need water too, just like us. But plants don't eat anything. They *make* their own food.



So why do plants need fertiliser?



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Fertilisers have nutrients in them.
Plants use the nutrients to *help* them
make their food.

Some of our parents,
or maybe some of us,
take supplements
(extras) too, like
vitamin tablets or cod
liver oil.



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**Let's look at the
things plants need in
order to grow
properly.**



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What can you see here?



Water



Light

Warmth

Space

Nutrients



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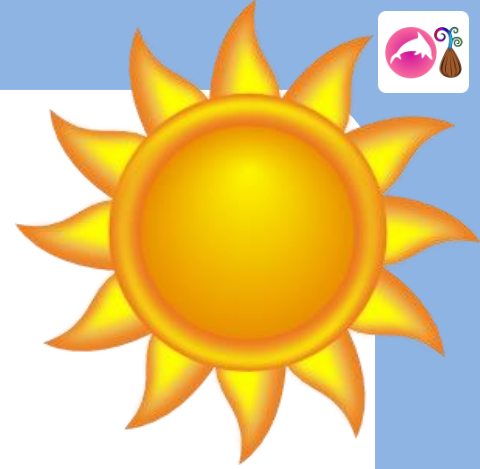


**So, can you remember
what is it plants need in
order to grow properly?**

**Now let's find out why
they need those things.**



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Light

Plants use light to make their own food. When plants make their food, this is called **photosynthesis**.

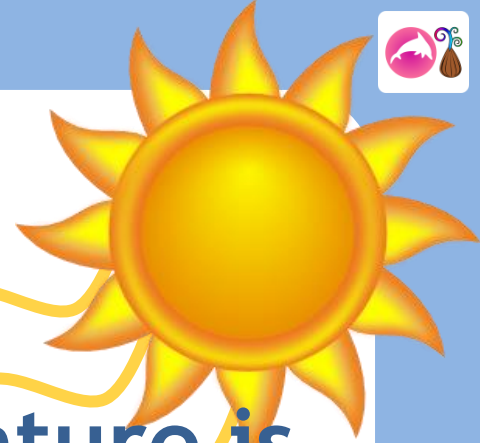
Photo means *light*.

Synthesis means *making*.

So, plants *make* food by using *light*.

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Warmth



Plants will die if the temperature is too low (if it's too cold).

Think about what happens to plants and trees in the winter season.



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Nutrients

Plants use nutrients to *help* them make their food. Fertiliser contains a lot of nutrients.

Different nutrients help the plant in different ways. Some help the roots grow. Some help the flowers grow.



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Who has a compost bin at home?

You can make your own fertiliser by leaving natural things to rot in your compost bin.



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Water



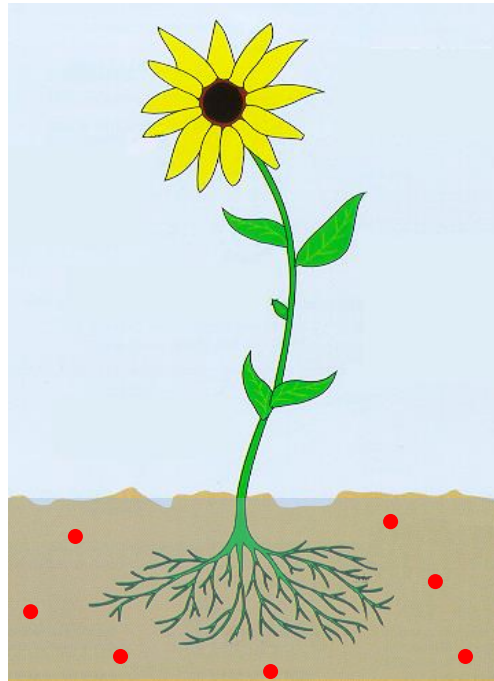
Plants need water for
photosynthesis.

Who can remember what
photosynthesis is?

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Water

The water also dissolves the nutrients so that they can be taken into the plant by the roots.



Science! Space



Plants need space so that they have enough room to grow.
Who can think of examples of times when you were in a crowded place?



How did you feel?

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**OK, can you list the 5 things
plants need to grow?**

- Light
- Warmth
- Water
- Nutrients
- Space



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Concept Cartoon

What do you think? Are they right?

The reason grass doesn't need to be cut in the winter is that the grass doesn't grow then as there is no sunlight



The plant will grow better on a sunny day compared to a cloudy one



The plant won't grow at all if the sky is cloudy



This is a concept cartoon. Each of the characters has a different idea.

Your job is to decide who is right and who is wrong and then explain why you think that.

It is a little bit like reasoning in maths.