



Leaves and Light

Remember It

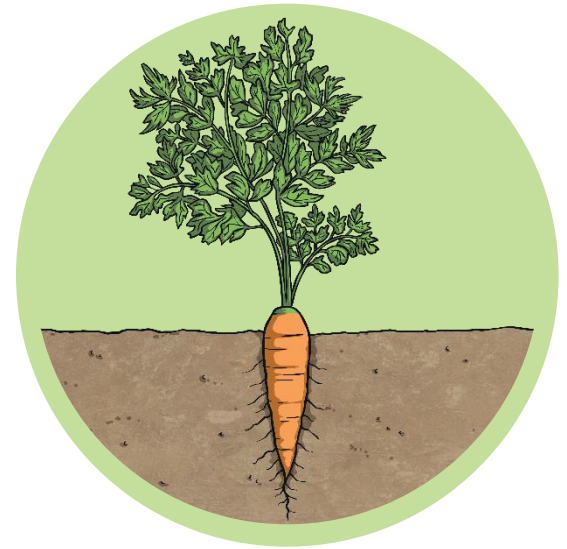
Can you remember the functions of a plant's roots and describe them?



A _____ /S _____



W _____ /A _____ /N _____



S _____

Remember It

Can you remember the functions of a plant's roots and describe them?



Anchorage/Support

Roots keep the plant steady and help it to stay upright in harsh weather conditions.



Water/Air/Nutrients

Roots take up water, air and nutrients and transport these to the stem of the plant.



Storage

Many plants store food and water in their roots. Carrots, for example, are known as root vegetables.

Leaves – Green Machines

Leaves are incredibly important to plants. You can think of them as the machines or factories of the plant.

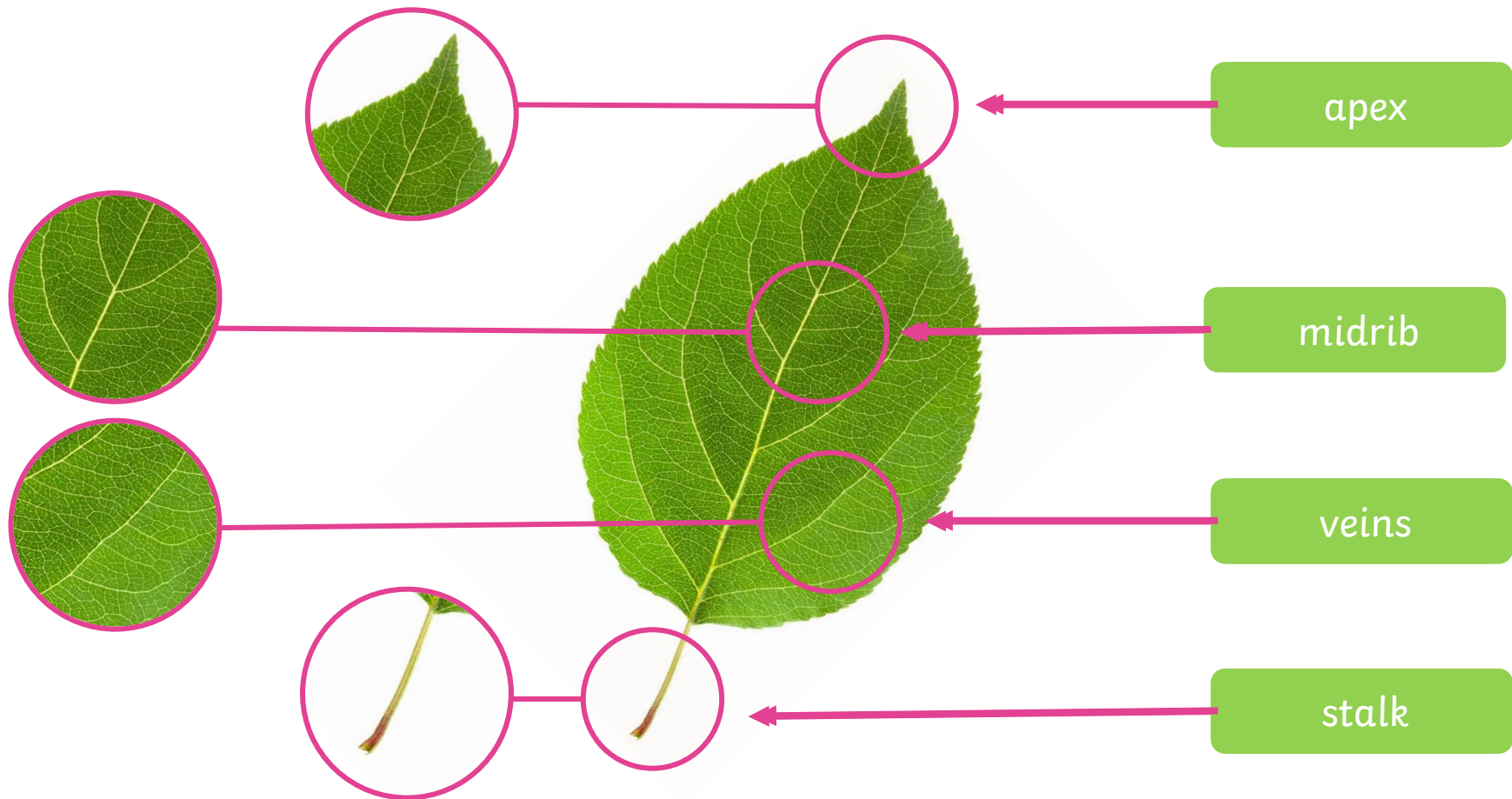
What are the different parts of a leaf? What do you think plants use their leaves for?



Leaves – Green Machines

Can you identify the different parts of a leaf?

Click each part to reveal the answers.



Solar-Powered Plants

I understand that plants need water and air, a bit like we do.

But why do plants need light?

What do you think?

Why do plants need light to live healthily?



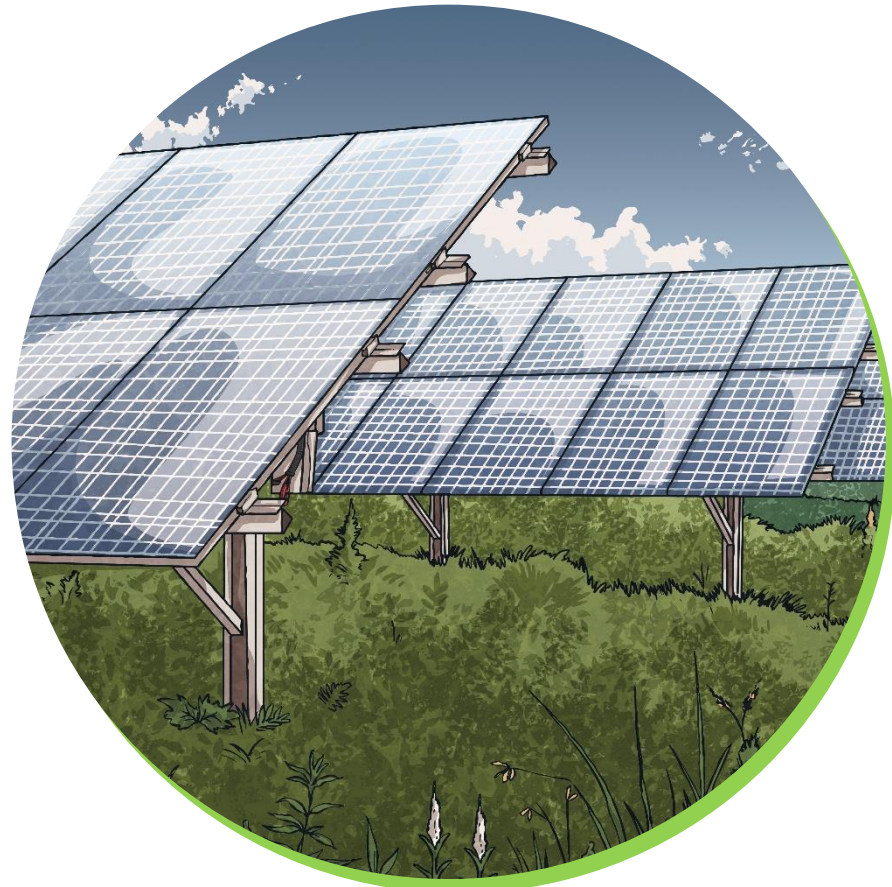
Solar-Powered Plants

Leaves have a very important function: they **produce food** for the plant.

Plants use this food as a source of energy, helping them to survive and grow. They can also store their food to use later, as we saw last lesson when we looked at root storage.

Leaves absorb energy from sunlight
and use it to produce their own food.

This is similar to how humans
collect energy from the Sun
using solar panels.



Solar-Powered Plants

Light is so important to plants that some can turn towards the Sun so that they can absorb as much light as possible.



?

Can you describe the main function of a plant's leaves?

Leaves of All Shapes and Sizes

The needle-like leaves of this conifer look very different to the leaf we looked at earlier.



In fact, leaves can come in a wide variety of shapes, sizes and colours.

Let's look at some of them.