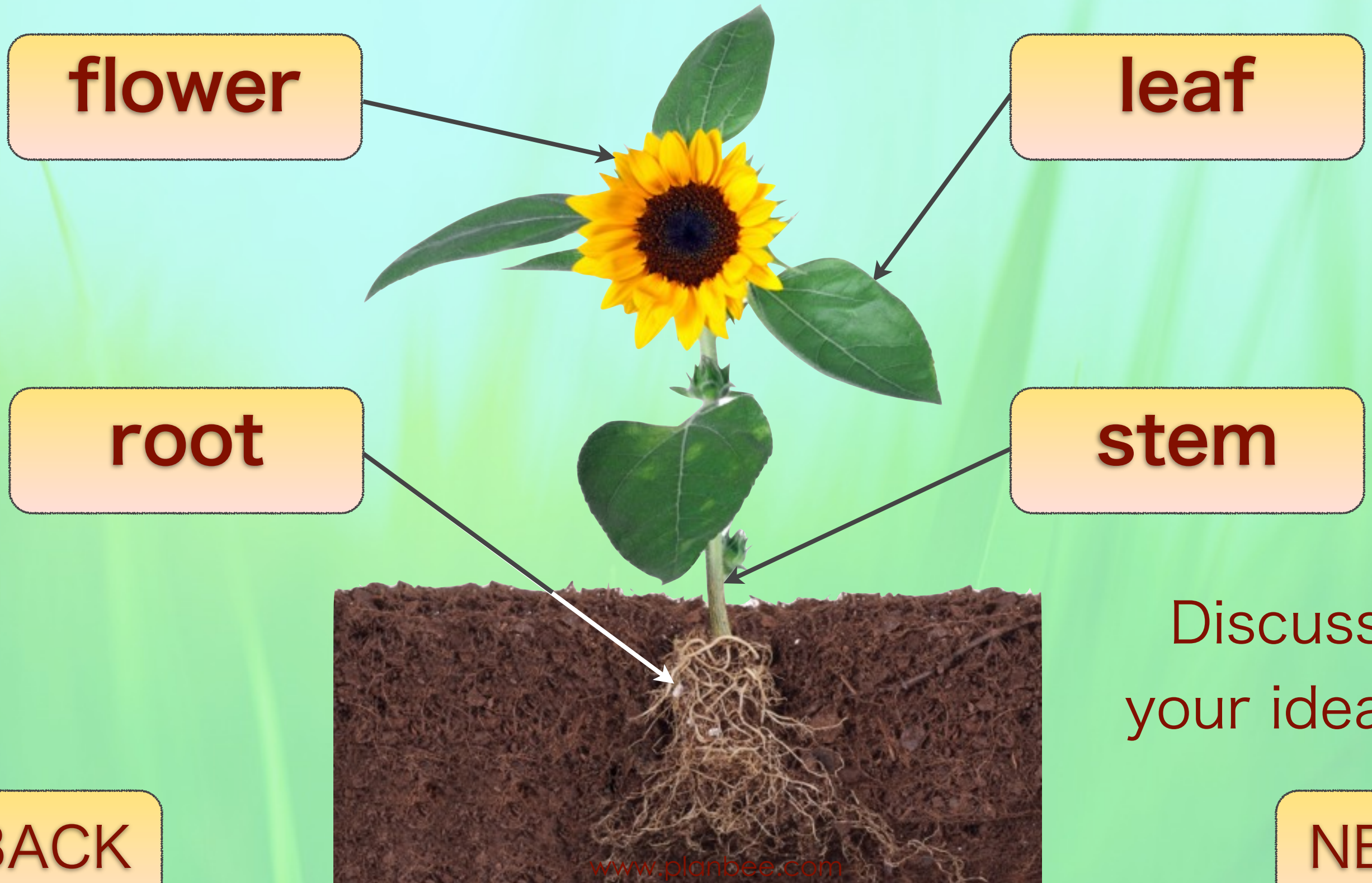


How Plants Grow

Learning Objective:

To investigate the way in which water is transported within plants.

Do you know what each part of a flowering plant does?



Discuss
your ideas.

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What does each part of the plant do?

flowers



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

leaves



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.

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stem



The stem transports water and minerals to all the other parts of the plant. The stem is made up of lots of little tubes. It also helps to make the plant taller, growing away from other plants to reach the sunlight and enables it to stand upright.

roots



The roots of the plant absorb water and minerals from the soil which are then transported to all the parts of the plant by the stem. The roots also act like an anchor to keep the plant in place.

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Which of
these statements about where plants get their
water from do you agree with?



The flower catches rain as it falls from
the sky.

The leaves absorb water in the air and
from rain that lands on them.

Plants get all of their water from the
soil; the roots absorb moisture.

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Only one of these statements was correct! Did you agree?



The flower catches rain as it falls from the sky. ❌

The leaves absorb water in the air and from rain that lands on them. ❌

Plants get all of their water from the soil; the roots absorb moisture. ✔️

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1. Rain falls on the ground
and sinks into the soil.



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2. The roots absorb water from the soil.



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3. The stem carries the water to the rest of the plant.



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What happens to the
water once it has been transported
into the plant by the roots and stem?
Where does it go?



Discuss your ideas.

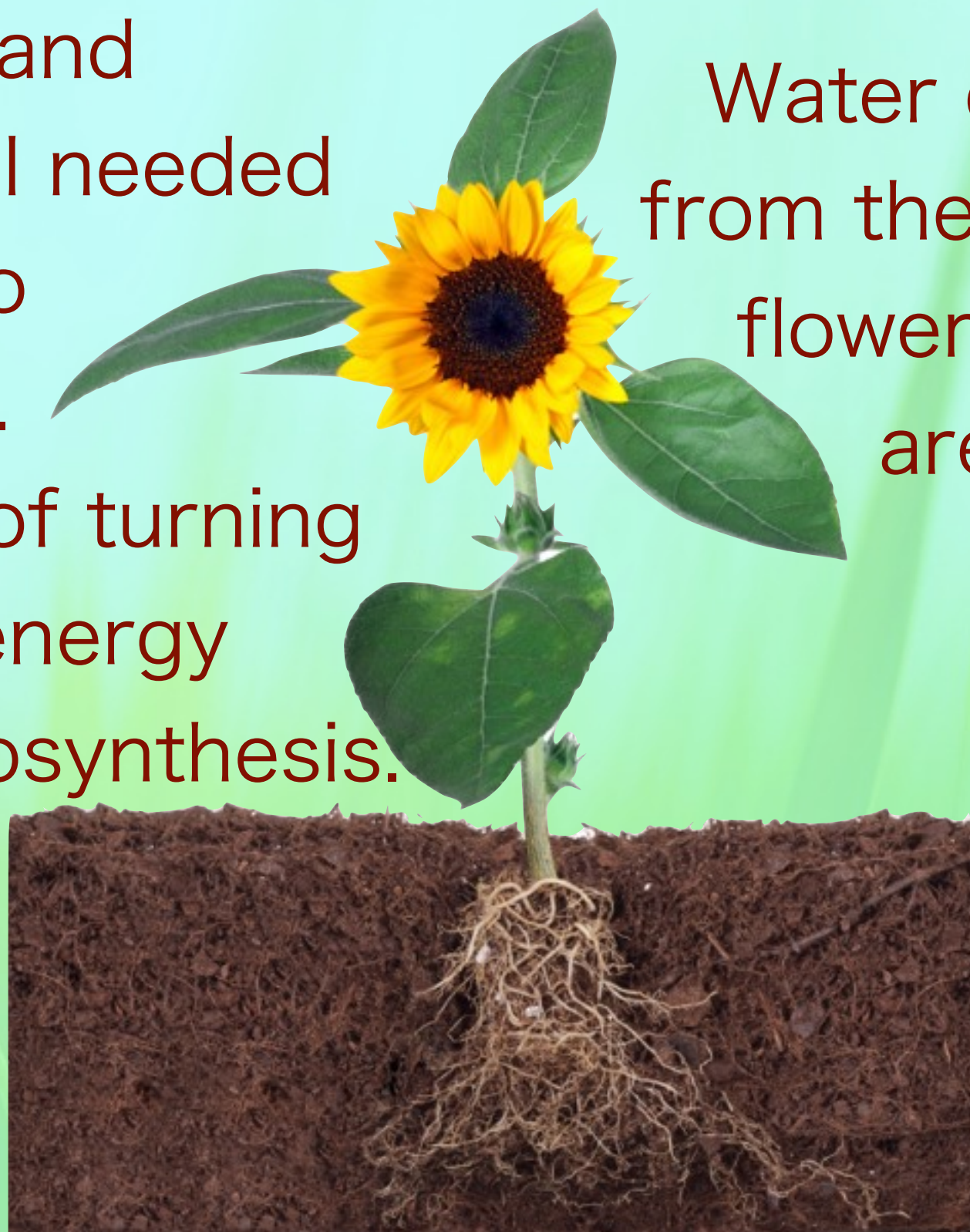
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The stem transports water to the leaves. The water and air and sunlight are all needed by the plant to make its food. This process of turning sunlight into energy is called photosynthesis.

Water carries food from the leaves to the flower, where seeds are made.



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Can you think of some experiments we could do to show how water is transported by the roots and stem?

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Could this help us plan an experiment using a plant such as celery?

The water in the glass has been coloured with food dye. The kitchen roll soaks up the water.



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Today we will be
planning and setting up
experiments to show how water is
transported within plants.



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