

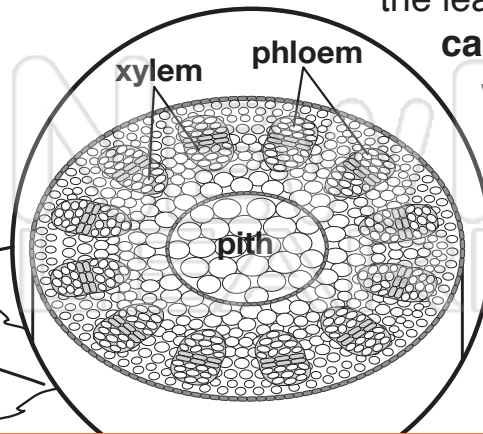


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Stems

Plants structures each serve a different purpose for keeping a plant alive and healthy. Plant **stems support** the leaves and flowers, and they **carry water and nutrients** within the plant.



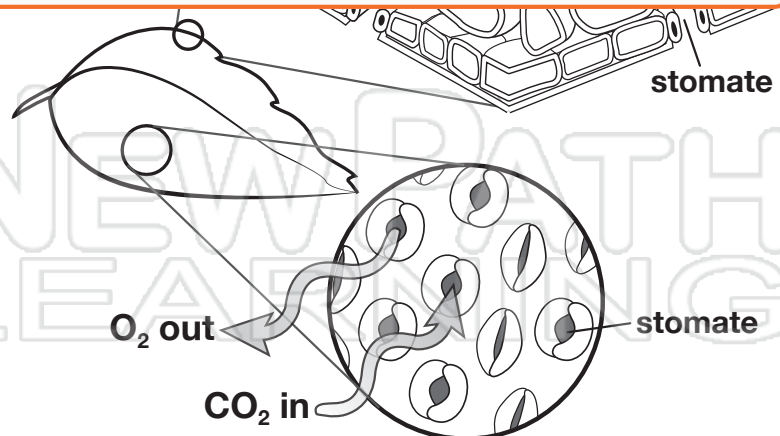
The **xylem** carries **water and nutrients** from the roots to the leaves. The **phloem** carries **sugar** away from leaves to the rest of the plant.



PREVIEW

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A plant's leaves are made of many layers of cells. Two outer layers of tough skin cells, called the **epidermis**, provide protection for the leaf. Leaves have tiny pores called **stomates** which allow water and gases to pass in and out of the plant.



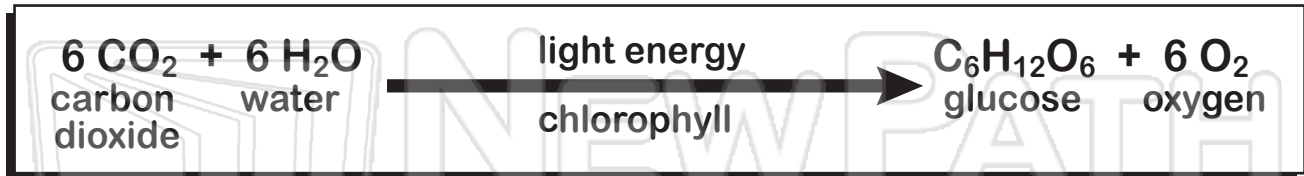


Photosynthesis & Respiration

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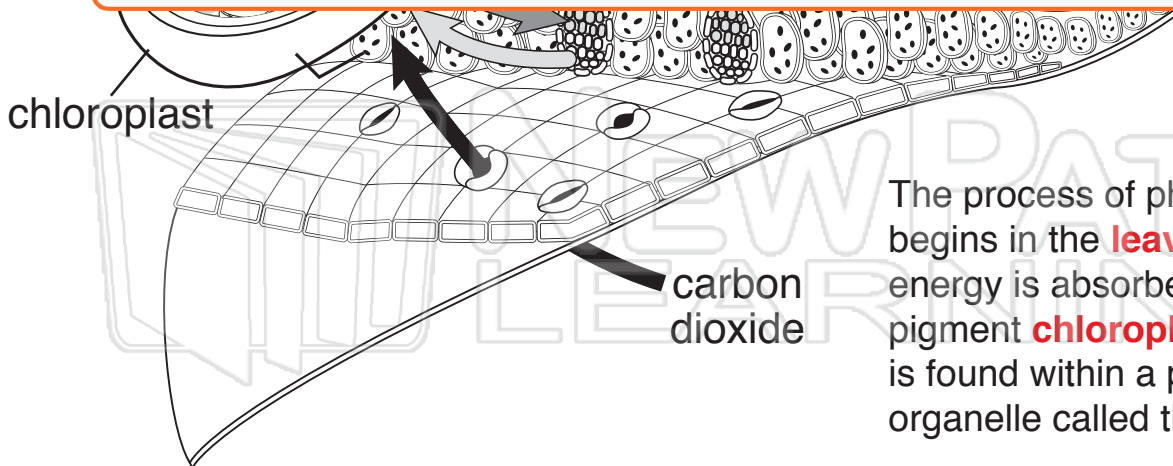
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Photosynthesis is a process by which green plants and certain bacteria use the energy from the Sun to **convert carbon dioxide** and **water** into the simple sugar **glucose** ($C_6H_{12}O_6$) and **oxygen**. Plants and animals use glucose as a source of energy for all life processes.



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The process of photosynthesis begins in the **leaves** where light energy is absorbed by the green pigment **chlorophyll**. Chlorophyll is found within a plant cell organelle called the **chloroplast**.

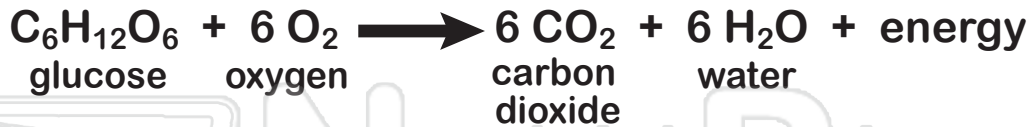


Photosynthesis & Respiration

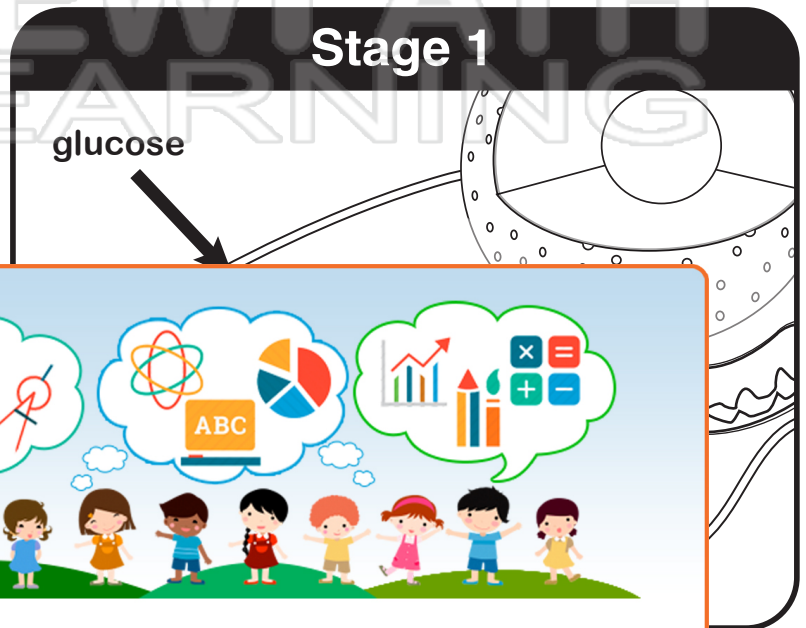
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Cellular Respiration is a process by which cells **break down glucose** to release stored **energy**.



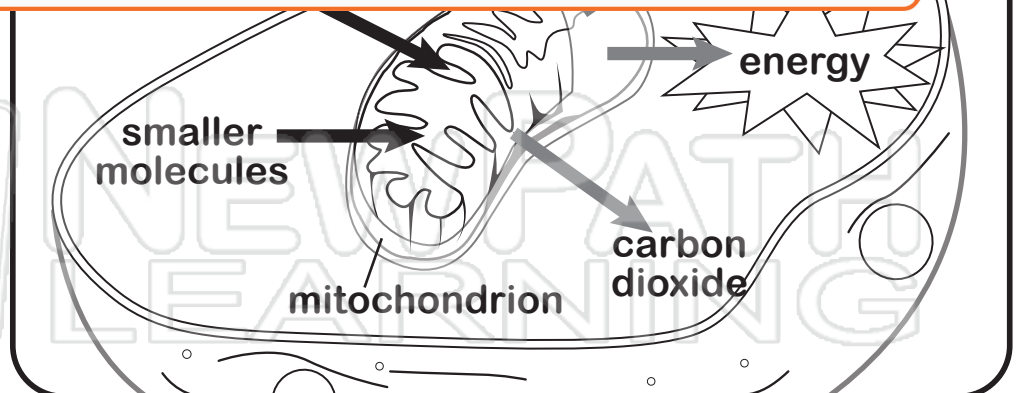
Stage 1 of respiration begins in the cell's **cytoplasm** through the break-down of **glucose** into smaller molecules releasing a small



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During **Stage 2**, these smaller molecules combine with oxygen in the **mitochondria** to produce a large amount of **energy** along with **carbon dioxide** and **water**.



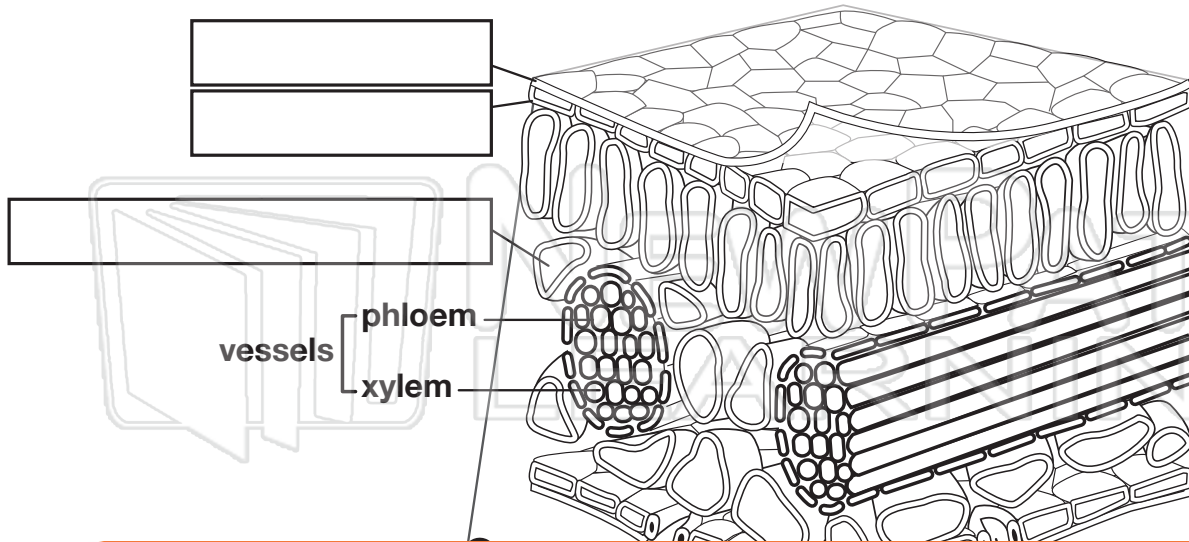


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Label the leaf parts.



PREVIEW

What

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Roots and stems carry water and nutrients around the plant through vessels.
What does **xylem** do?

What does **phloem** do?



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Fill in the blanks.

_____ found in plant organelles

called _____ absorbs sunlight.

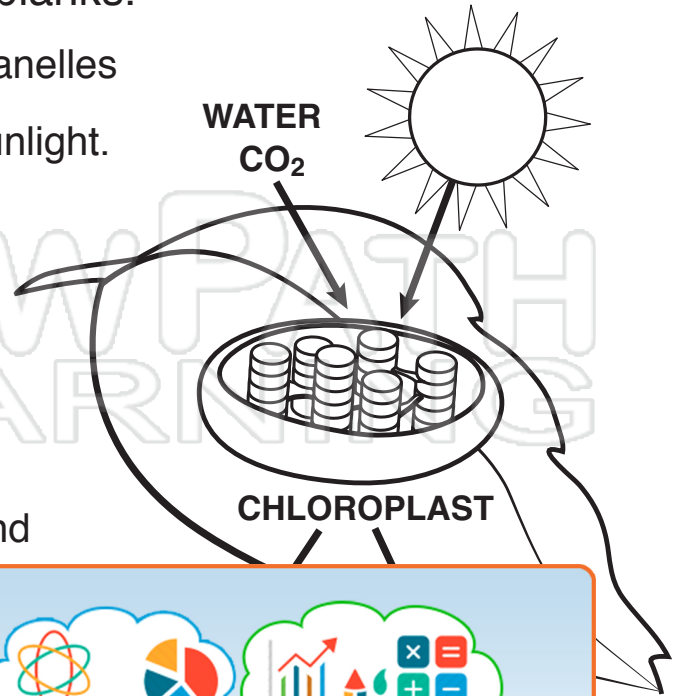
Plants use _____ they

take in from the air around them,

_____ they get from the

soil, and _____ from the

Sun to produce _____ and



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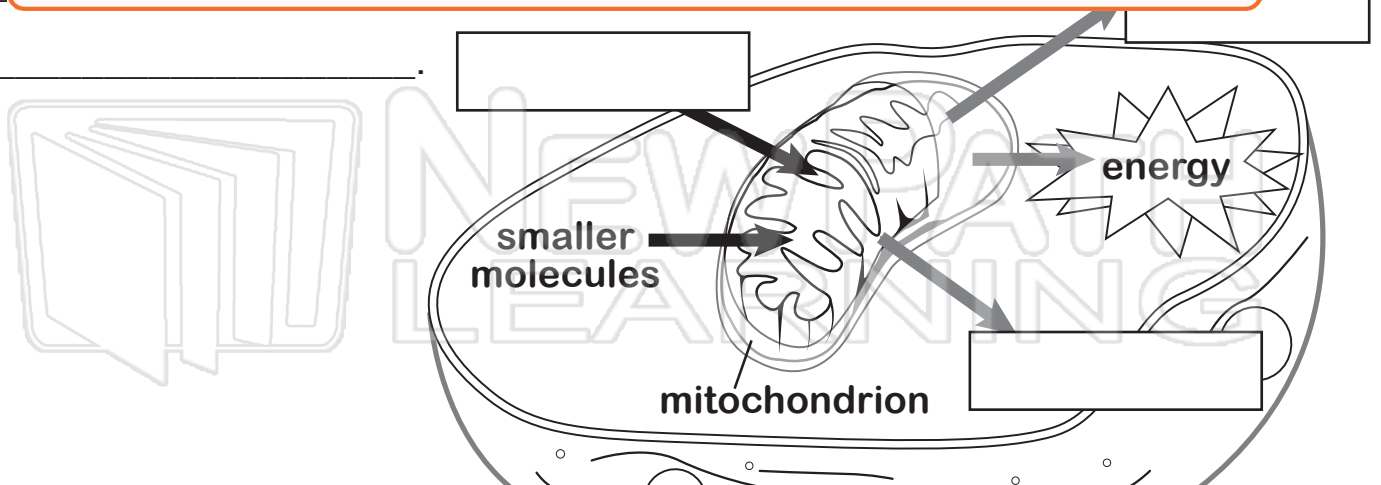
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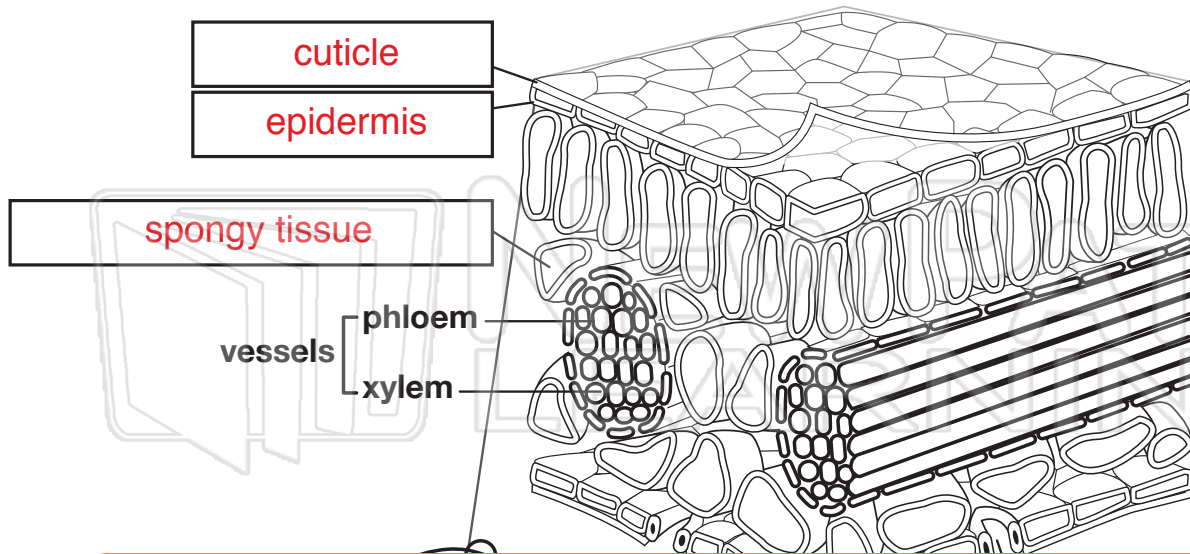
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Answer Key

Label the leaf parts.



PREVIEW

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the printable version of this worksheet

Roots and stems carry water and nutrients around the plant through vessels.
What does **xylem** do?

The xylem carries water and nutrients from the roots to the leaves.

What does **phloem** do?

The phloem carries sugar away from leaves to the rest of the plant. Sugar is made in the leaves during photosynthesis.



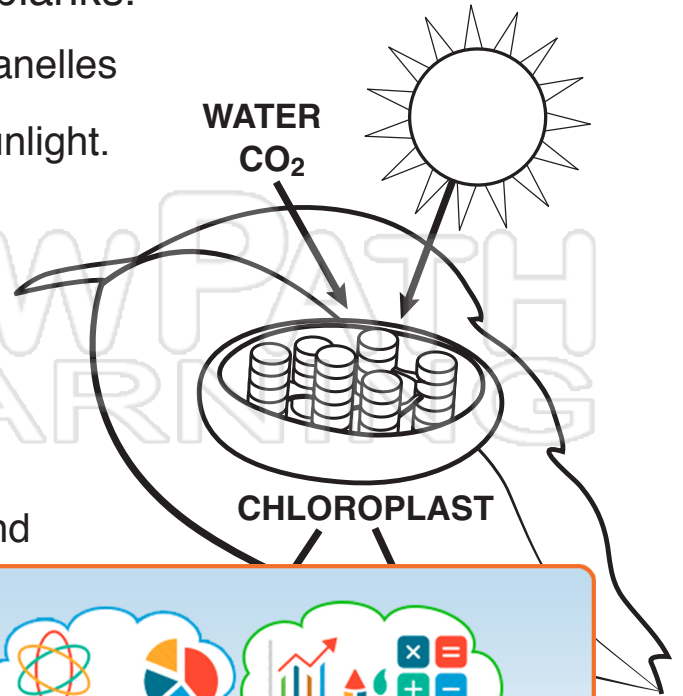
Photosynthesis & Respiration

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Answer Key

Fill in the blanks.

Chlorophyll found in plant organelles called chloroplasts absorbs sunlight. Plants use carbon dioxide they take in from the air around them, water they get from the soil, and energy from the Sun to produce oxygen and



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