



LAURITZEN  
GARDENS

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*Self-Guided Tour  
Student Packet*

*7th Grade*

*Name:* \_\_\_\_\_



# Photosynthesis

photo (light) + synthesis (putting together) = using light to put things together; it's how plants eat

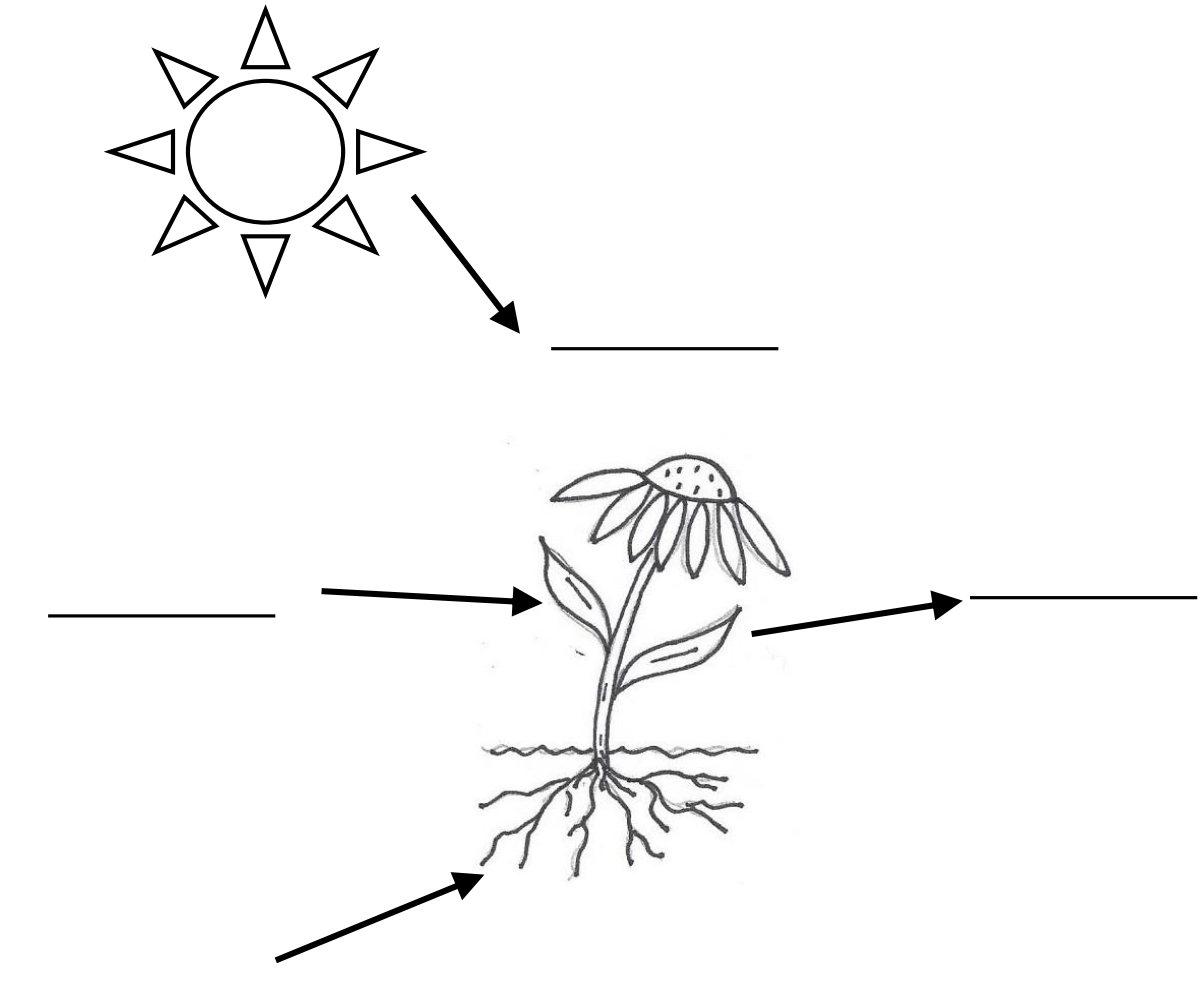
Plants need three things to make their food: **carbon dioxide**, **water** and **light**. (Carbon dioxide is a chemical in the air along with oxygen.) Plants breathe and drink, just like us; although humans want to breathe in oxygen and plants want carbon dioxide. They breathe through their leaves and drink through their roots.

Once plants have both carbon dioxide and water, they just need light to make food (sugar). Plant leaves are made up of tiny little cells where the plant makes its food. Inside these cells are tiny things called chloroplasts, which is what makes leaves green. They also are what takes carbon dioxide, water and light and turns them into sugar and oxygen. The sugar is used as food by the plant and the **oxygen** is breathed out into the atmosphere.

<http://photosynthesisforkids.com/>

## Photosynthesis in Action

*Fill in the blanks with appropriate key words from the explanation above.*



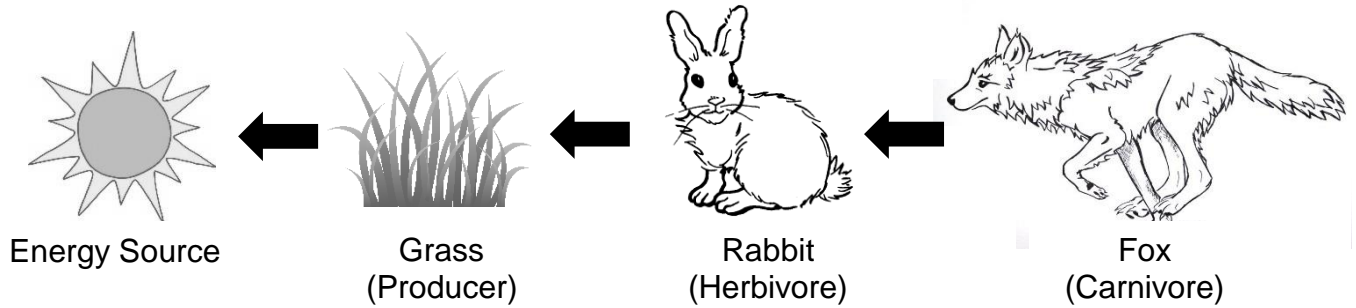




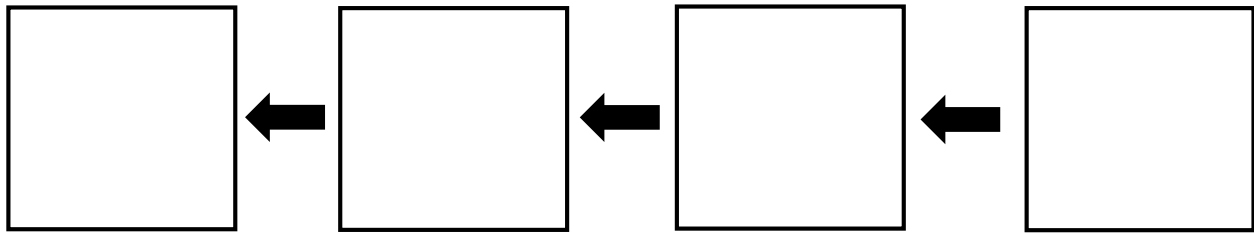


# Food Chains

All living things need energy to survive. Plants get energy from photosynthesis. Humans and animals get energy from the things they eat (plants and animals). A simple food chain might look like this:



Can you think of a different food chain?



What do you think would happen if one of the elements of a food chain disappeared?

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