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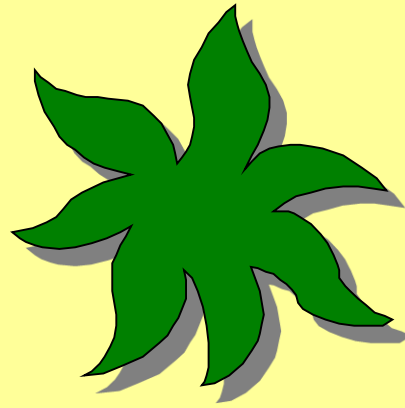
CLASS: UPPER PRIMARY

SUBJECT: BASIC SCIENCE & TECHNOLOGY

TOPIC: PHOTOSYNTHESIS



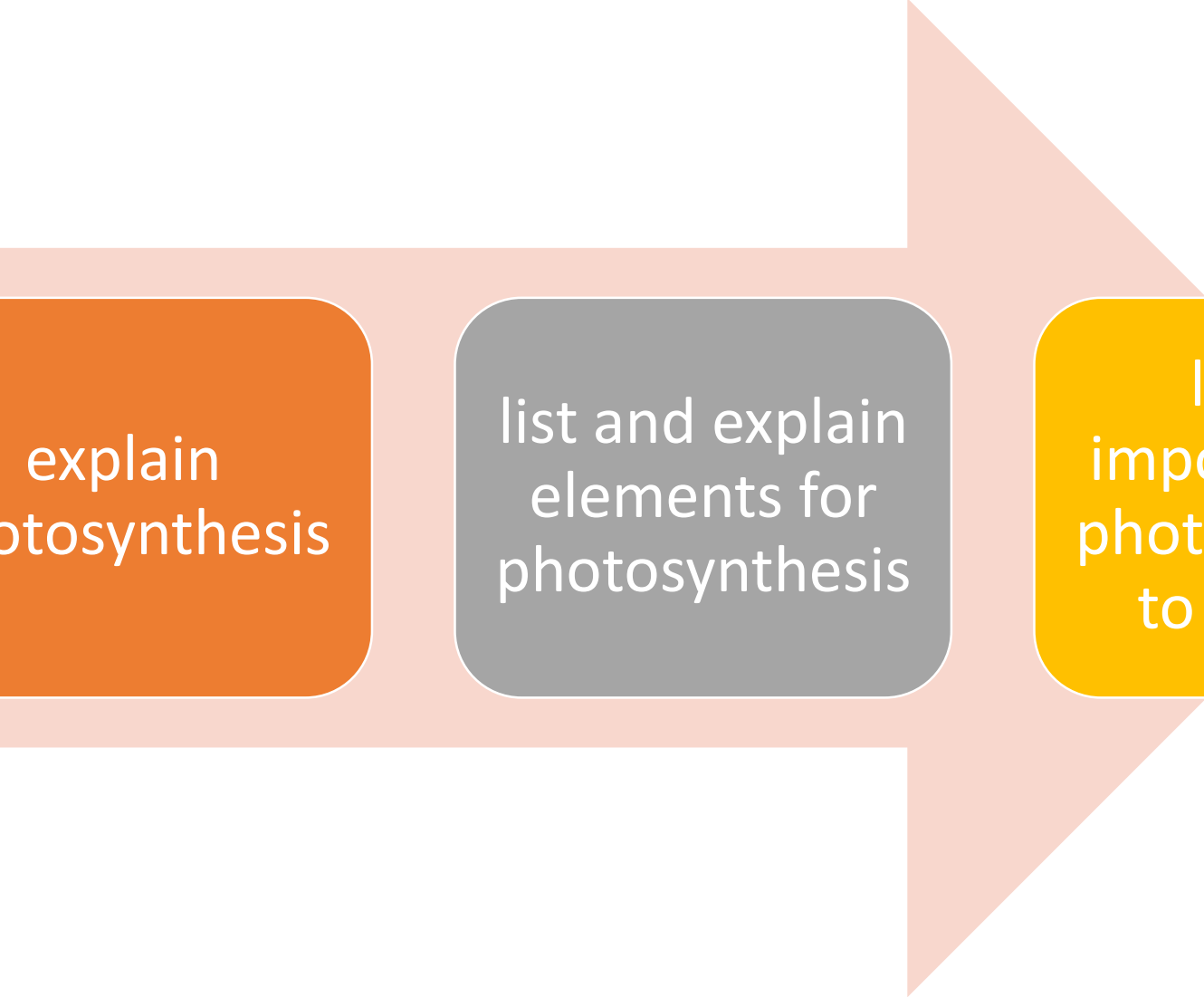
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Photosynthesis



Learning Objectives



explain
photosynthesis

list and explain
elements for
photosynthesis

list the
importance of
photosynthesis
to humans

What are the similarities?



**Solar
panel**



Tree

Answer

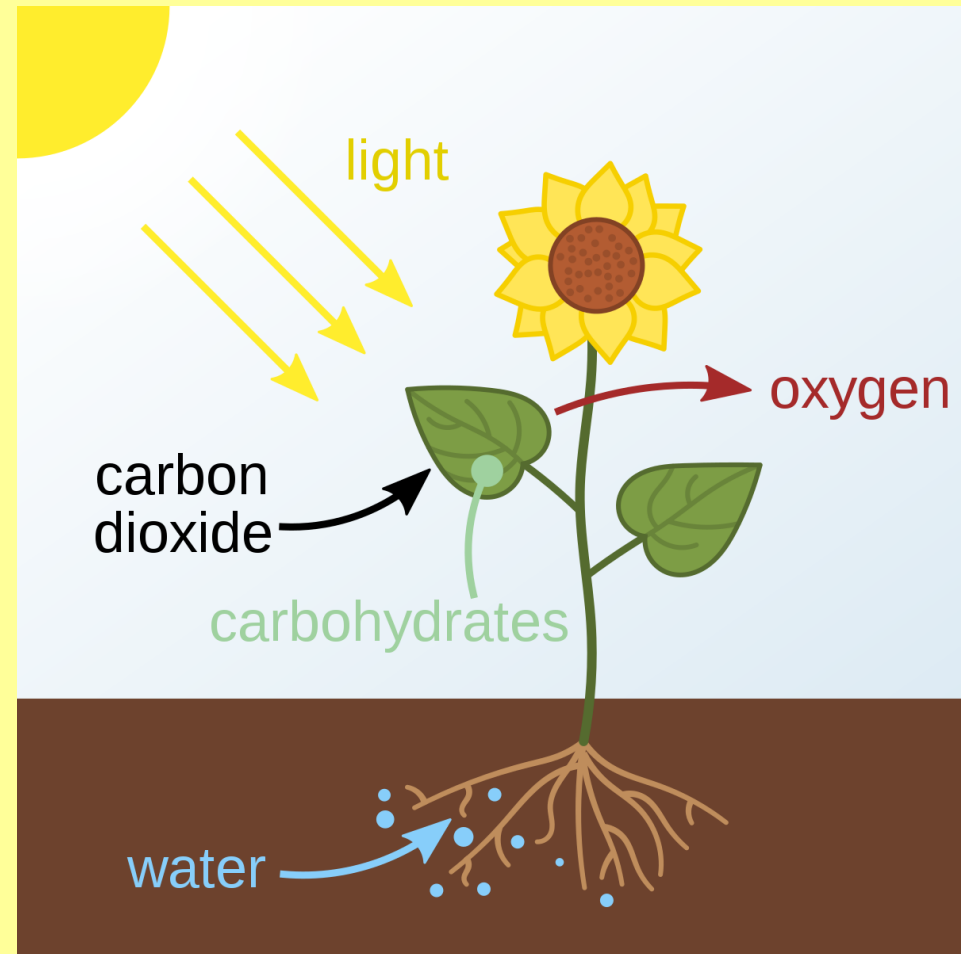


- Leaves work in a similar way to the solar cell. They both need a lot of light energy to work.



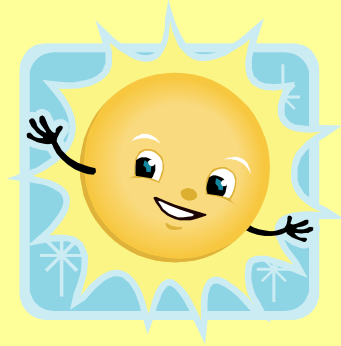
What is Photosynthesis?

Photosynthesis is the process by which **plant** uses the **energy** from the light of the **sun** to **produce** its own **food** to grow and develop



What is photosynthesis?

- The process of making soluble foods from **carbon dioxide** and **water**
- The sun provides the **light energy** that is required for the process
- Green chlorophyll in chloroplasts absorbs the light energy



Keywords

- Food is any substance that is used as a source of nourishment.
- Element is an abstract part of something, ingredient



LIGHT

•from sun

CARBON
DIOXIDE

•diffuses
from the air

WATER

•from soil



CHLOROPHYLL


•in the leaves

GLUCOSE

OXYGEN

•released into
atmosphere

Word equation for photosynthesis

carbon dioxide + water
+ light energy  sugar +
oxygen

Where do plants get their food from?

- Plants are *producers* that make food from simple chemicals
- Green plants do not absorb food from the soil
- They use water and carbon dioxide to make sugar and oxygen



Elements of Photosynthesis

- Sunlight
- Carbon dioxide
- Water
- Chlorophyll



Importance of Photosynthesis



it creates clean air
for humans to
breathe.



it allows plant to
grow.



it helps maintain a
normal levels of
carbon dioxide in
the atmosphere

Receiving
Sunlight



Under a shade/
No Sunlight



Independent Practice

Plant any seed of your own in two pots, put one outside and hide the other pot in a carton. Keep eye on it for two weeks and write what you observe and send it to our website.

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