

What are the similarities?



Solar panel



Tree



BRIGHT SPARKS
CHALLENGE- what are the
differences?

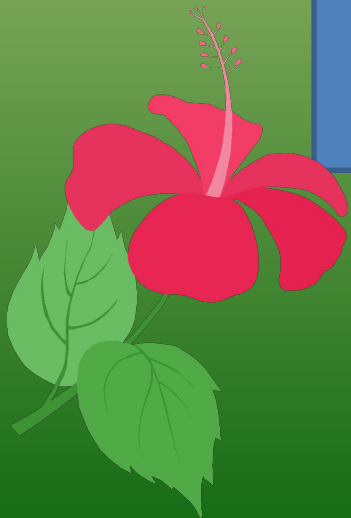
What is Photosynthesis?

Learning Objectives:

- **ALL** To define the term "Photosynthesis"
- **MOST** To be able to write the photosynthesis equation
- **SOME** Explain how plants get what they need to grow

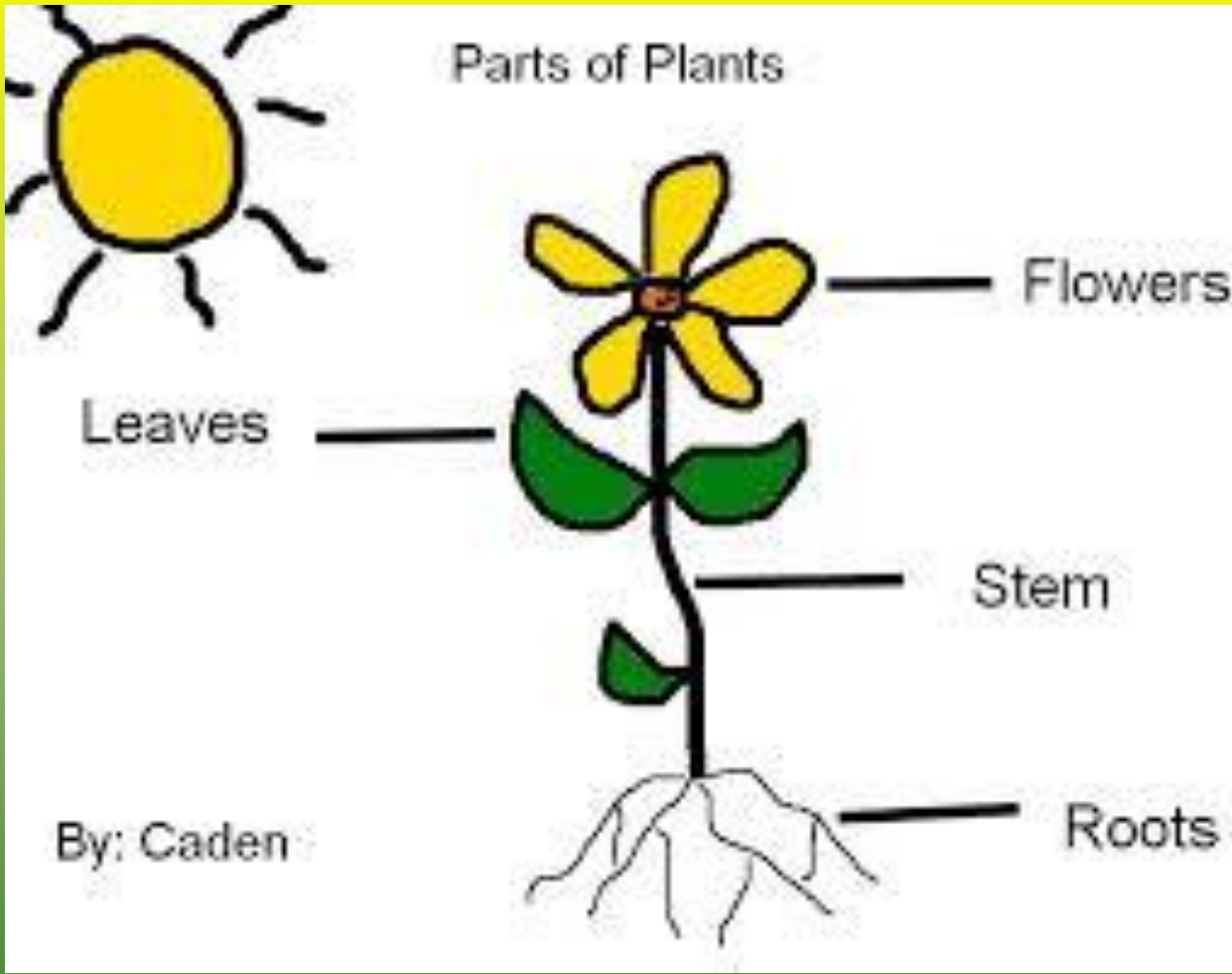
Task 1:

Draw and label a typical plant



**BRIGHT SPARKS
CHALLENGE-** can you say
what the parts of the plant
do?





- STEM- transports substances around the plant
- ROOTS- absorbs water and minerals (nutrients)
- FLOWER- reproductive organ of the plant
- LEAVES- absorb sunlight for photosynthesis

How do Plants Get their Food?

- Plants cannot get their food as we or animals do. They have to make it themselves.
- Plants DO NOT get their food from the soil, they only get water from the soil
- Plants absorb light (photo) from the sun and they use this light to make (synthesis) their food by a process called PHOTOSYNTHESIS

Task

Watch the video on Photosynthesis and write down all the things that plants need in order to grow properly



Chlorophyll

Carbon dioxide

Oxygen

Process

Photosynthesis

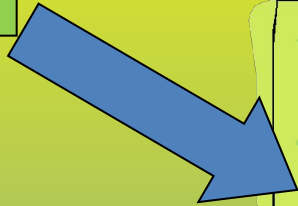
Light

Glucose □ (cellulose)

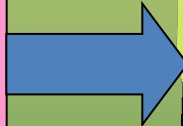
water

Photosynthesis - What do we need and is made?

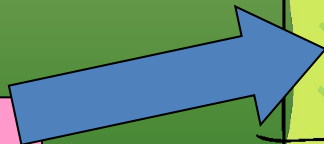
LIGHT
•from sun



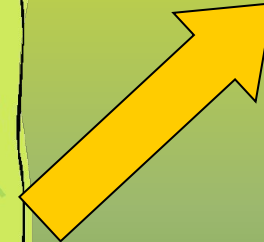
CARBON DIOXIDE
•diffuses from the air



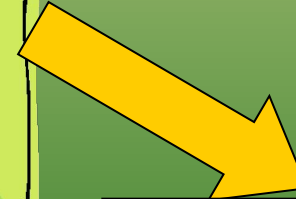
WATER
•from soil



GLUCOSE
•for biomass and energy



OXYGEN
•released into atmosphere



Task - Copy and Complete

Plants make their own F_____ by a process called P_____. This requires S_____, C_____, D_____, and W_____ and happens in the L_____ of plants. Plants absorb water from the S_____ through their R_____, C_____ D_____ comes from the air and enters the L_____ of the plant.

P_____ happens inside C_____ which are green. The chemical R_____ provides the plant with G_____ (a sugar) and O_____ which is a waste product. Glucose can be used by the plants for E_____.

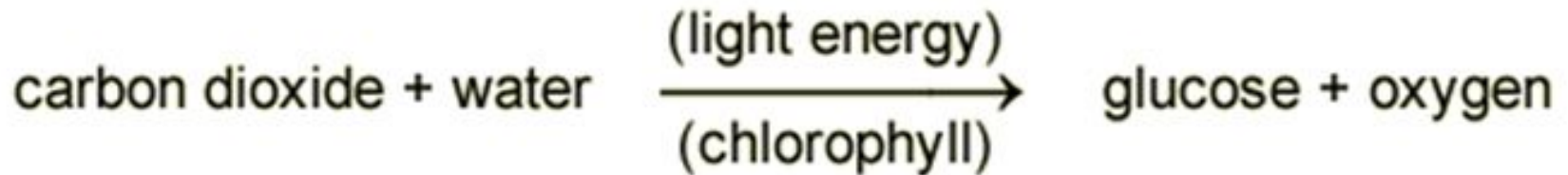
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The Photosynthesis Equation

- We can represent the reaction of photosynthesis by a simple word equation.



Plenary - Copy and complete the pyramid of learning

