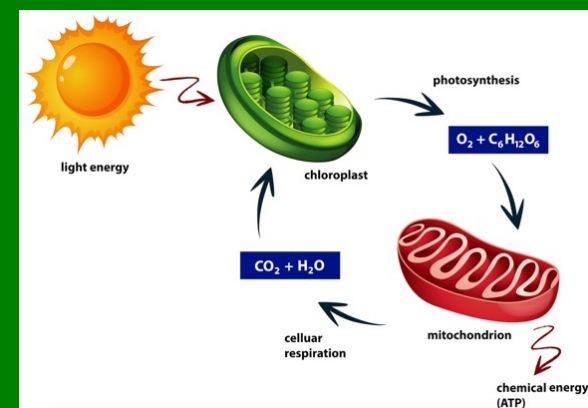
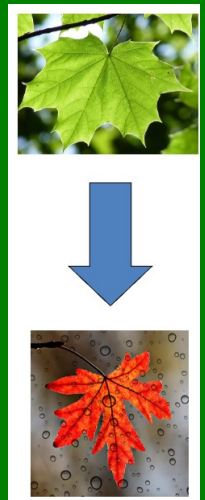
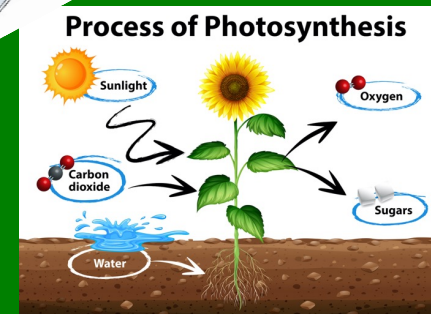
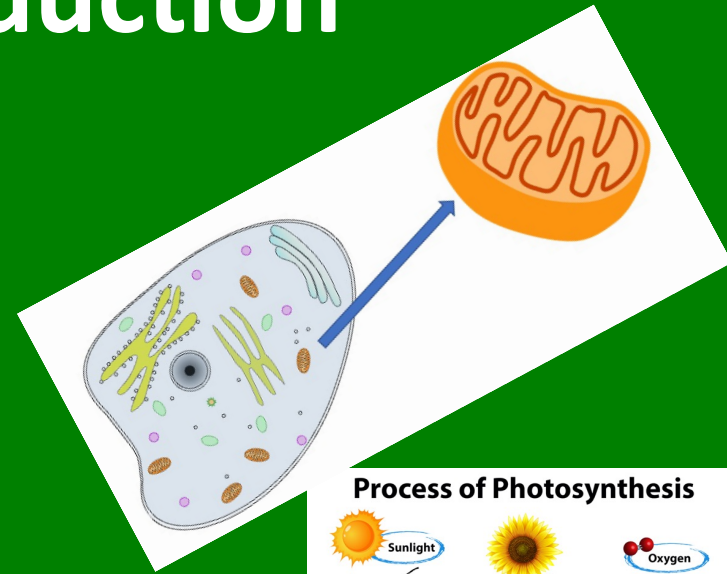


Cellular Respiration and Photosynthesis

An Introduction

- Earth's energy budget
- Cellular energy (ATP)
- Mitochondria
- Solar energy
- Chloroplasts
- Chlorophyll
- Photosynthesis vs. Cellular Respiration
- Photosynthesis and Life



Preview File

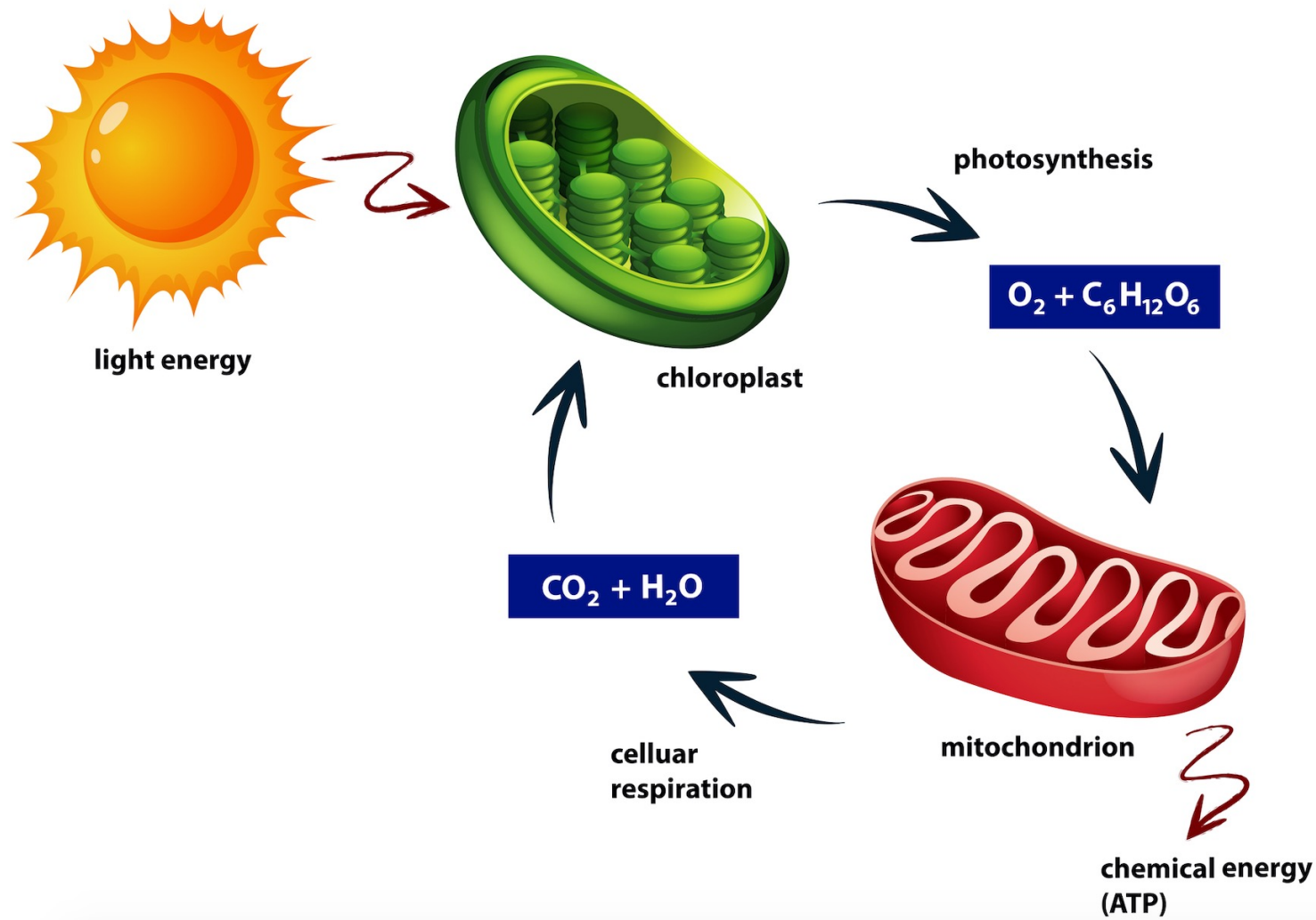
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- Student versions have portions of the text removed which is given in the teacher version and appear as _____ which the students are to fill in
- Other slides may have on them, this represents writing that has been removed on this sample

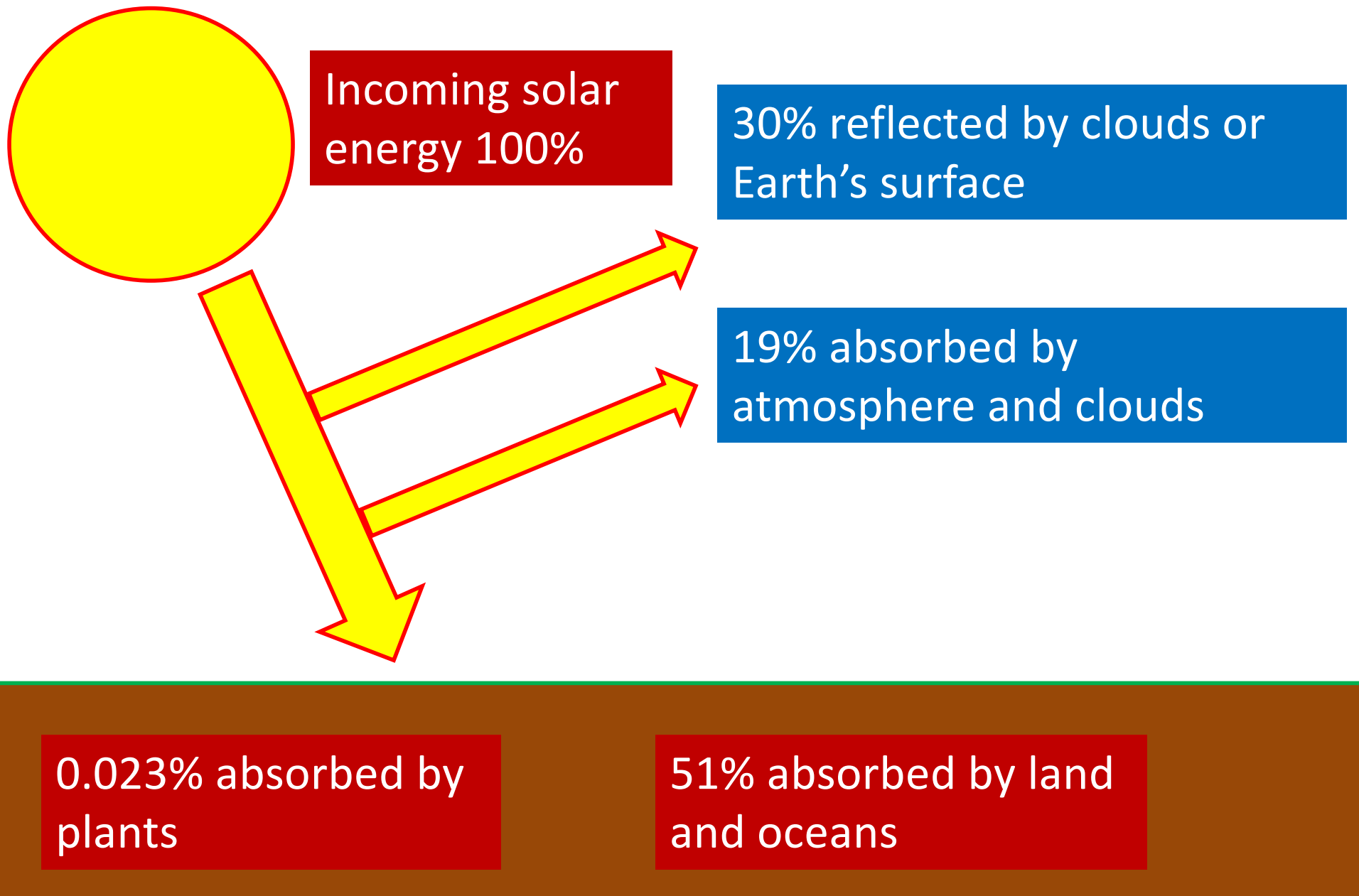
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Photosynthesis and Cellular Respiration

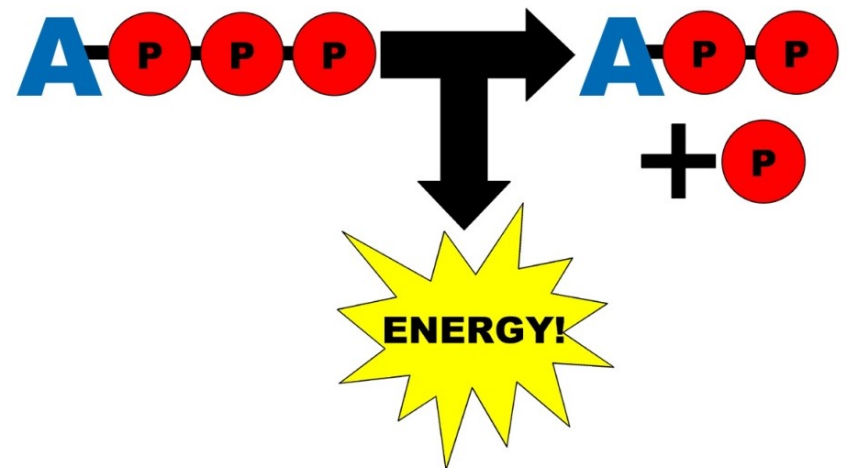


Earth's Energy Budget



Cell Currency (Payment)

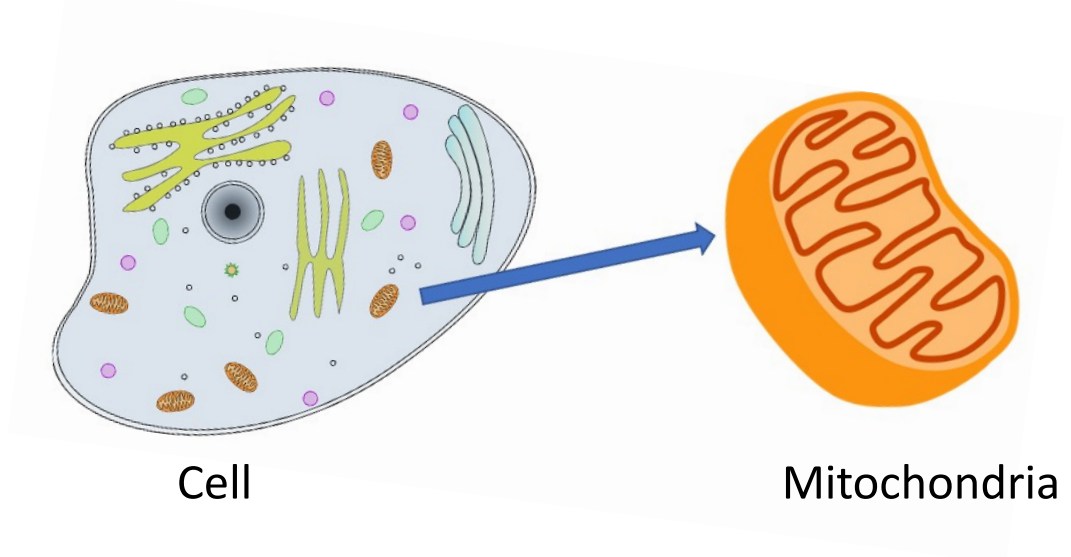
- Currency = Energy = ATP
- We use currency (money) every day to do things like buy food, pay bills, etc.



- _____

ATP (Energy/Currency for the Cell)

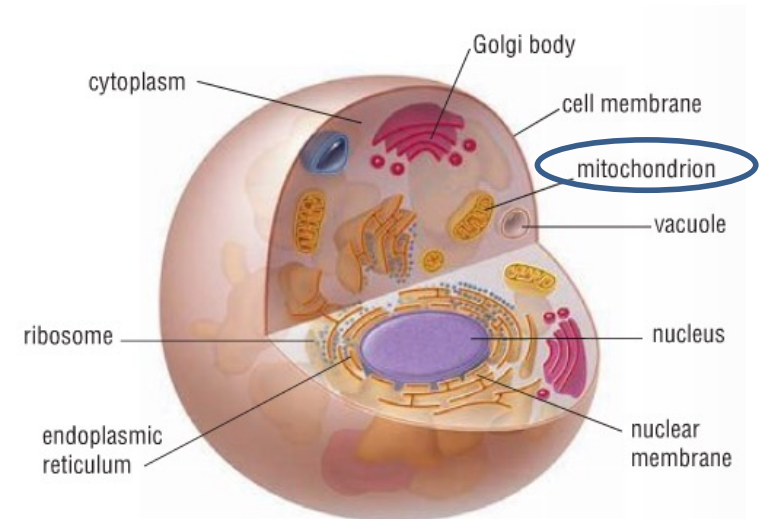
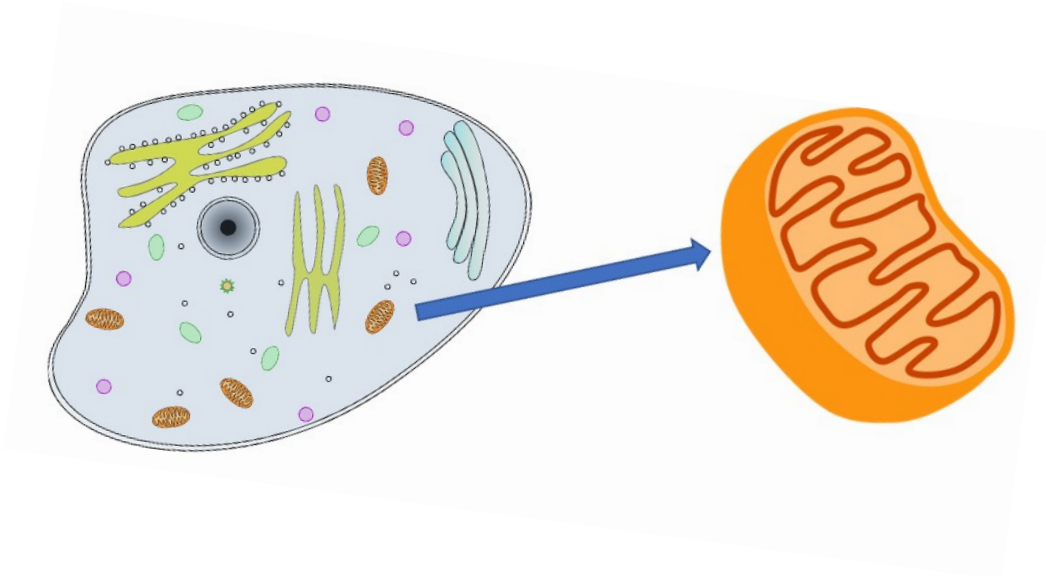
- _____
- ATP is created during cellular respiration inside the Mitochondria



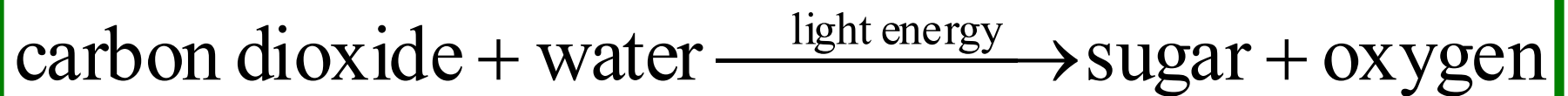
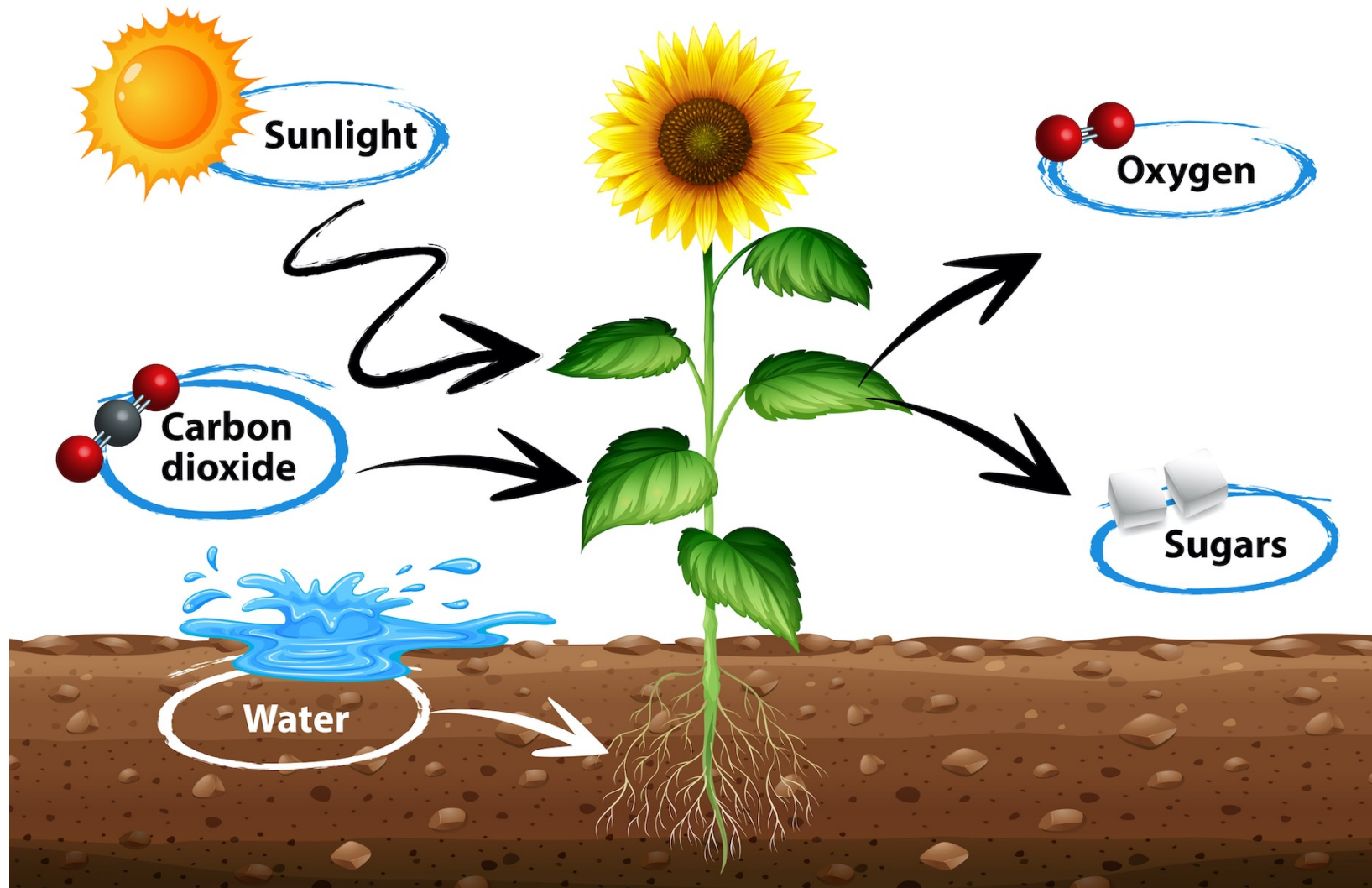
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Mitochondria

- _____
- _____

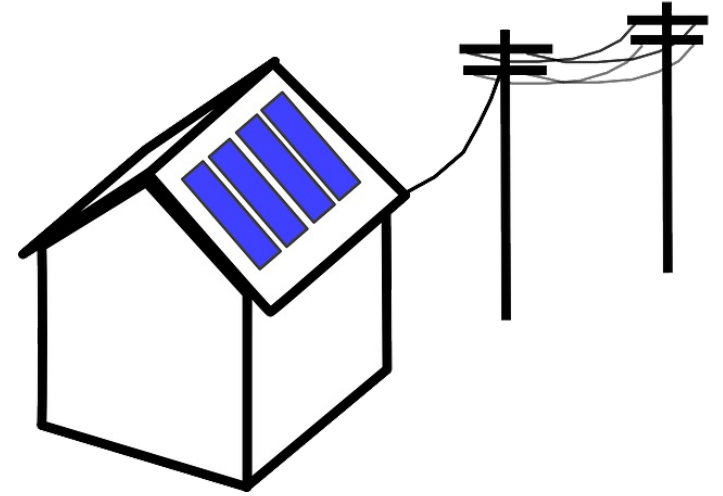


Process of Photosynthesis

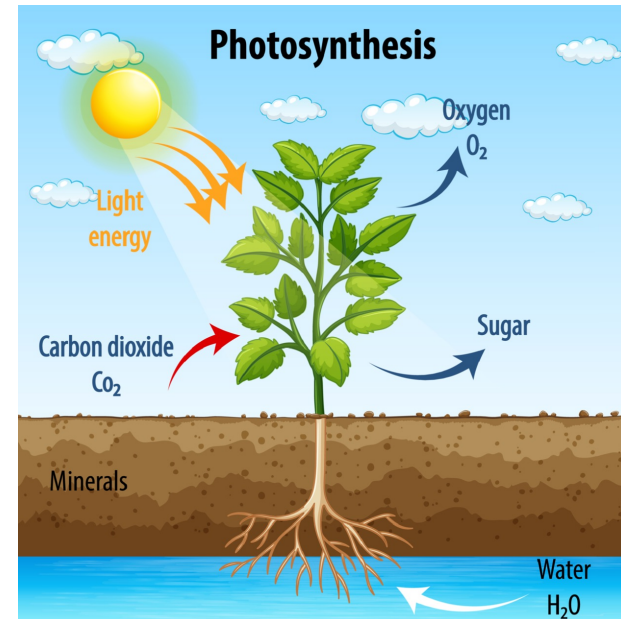


Solar Energy

- _____

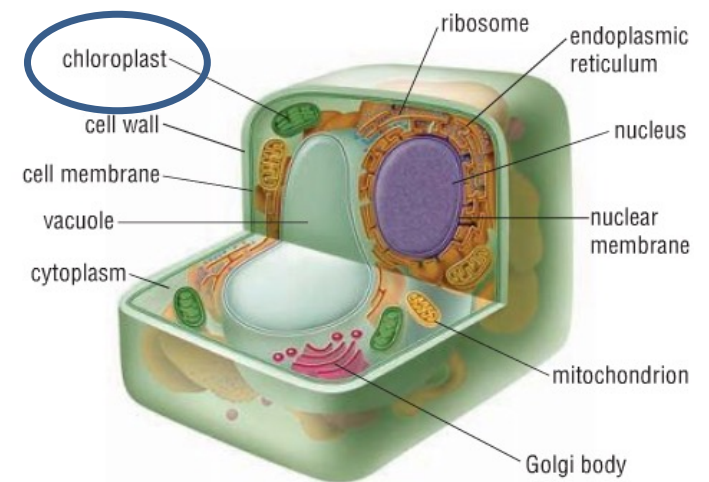
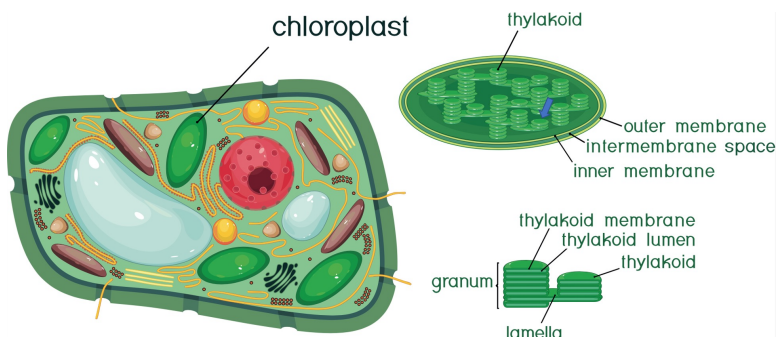


- Plants do something similar. They convert light energy into chemical energy (sugar) which the organism can use to move, talk, run, etc.



Chloroplasts

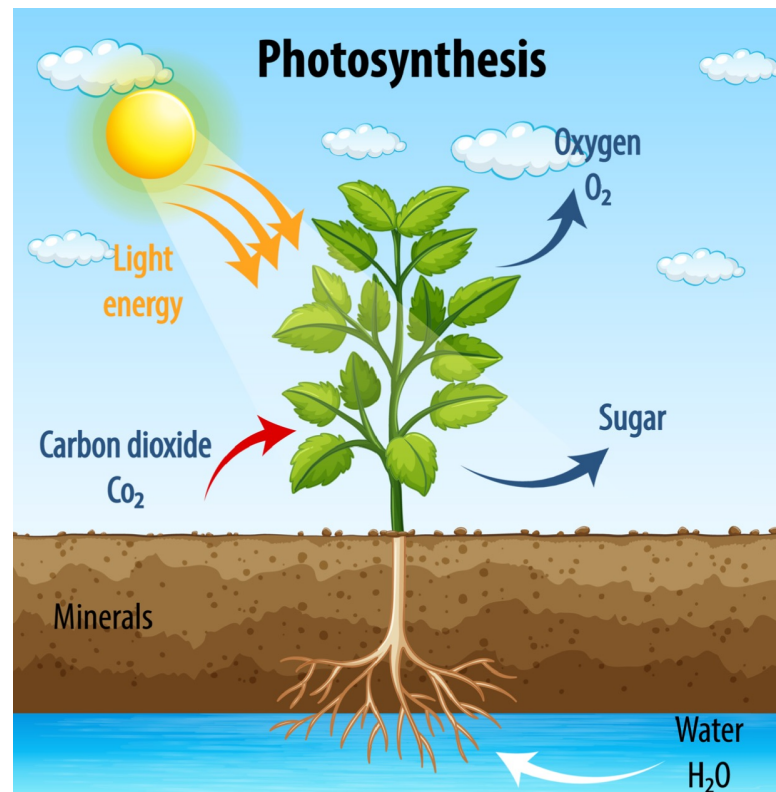
- Chloroplasts are located inside plants
- They contain chlorophyll which gives plants their green color and _____



Photosynthesis



Carbon Dioxide + Water + Light Energy → Glucose (Sugar) + Oxygen

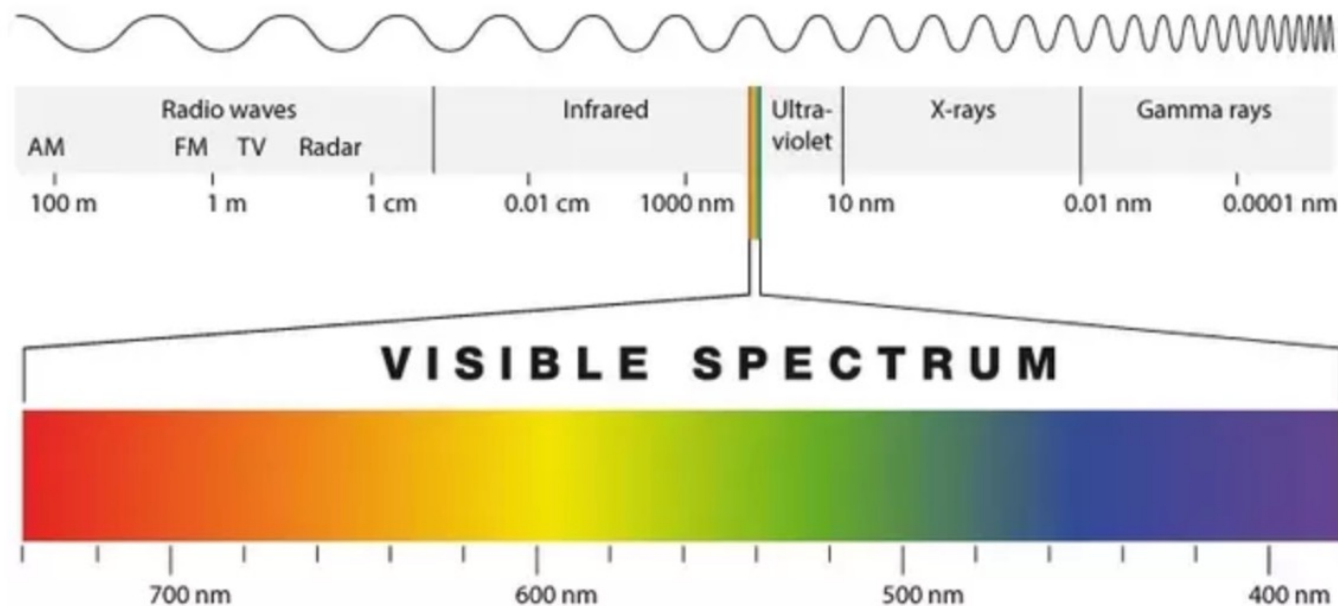


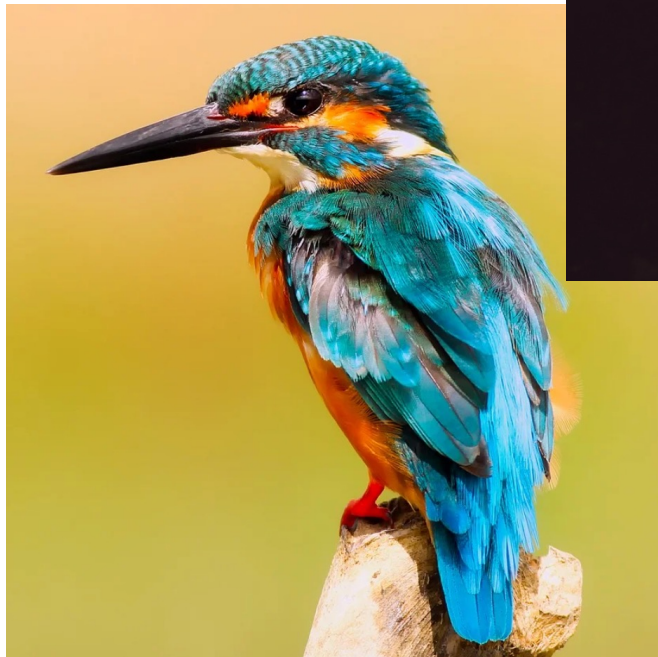
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Light Review

- _____
- Different substances absorb different colors depending on the structure
- Colors that the substance doesn't absorb, it reflects
- We see that reflection as the object's color

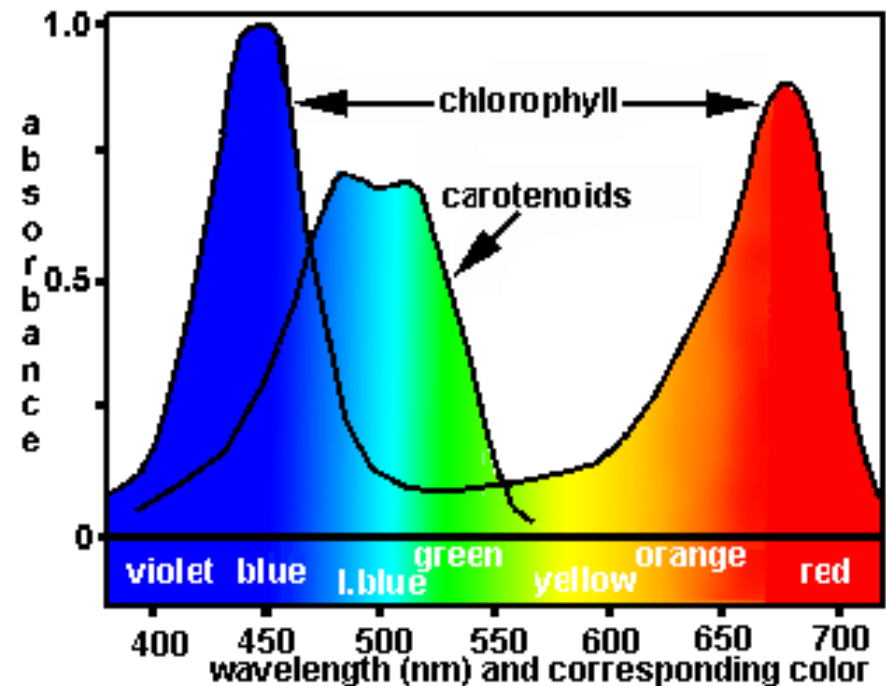




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Carotenoids

- Other accessory pigments, called carotenoids, also absorb light energy



Why do some leaves turn colors in the fall?

- There are three main pigments in plants; Chlorophyll (reflect green), Carotenoids (reflect orange/red), and Xanthophylls (reflect yellow/brown)
- The most common pigment is _____



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Photosynthesis and Cellular Respiration

Photosynthesis

carbon dioxide + water $\xrightarrow{\text{light energy}}$ sugar + oxygen

Notice Anything?

sugar + oxygen $\longrightarrow$ carbon dioxide + water + energy

Cellular Respiration

Photosynthesis and Cellular Respiration

Photosynthesis

carbon dioxide + water $\xrightarrow{\text{light energy}}$ sugar + oxygen

sugar + oxygen $\longrightarrow$ carbon dioxide + water + energy

Cellular Respiration

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To Photosynthesize, or not to Photosynthesize, that is the question

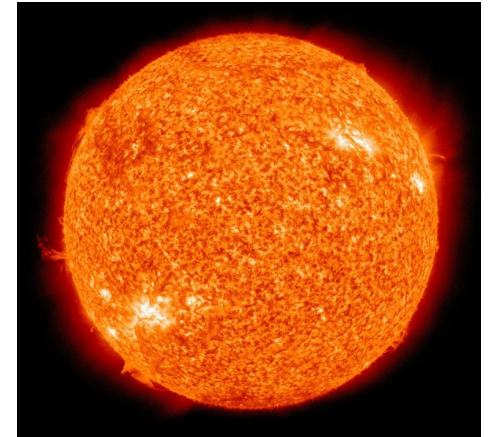
- Many organisms cannot photosynthesize (done by plants)
- They are called consumers because they obtain their energy by consuming other organisms
- _____

THEREFORE.....

Photosynthesis and Life

- We completely rely on the Sun!

- _____



=

- No Sun = No life on Earth

- This is the basis behind the dinosaur extinction



The Dinosaur Extinction

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