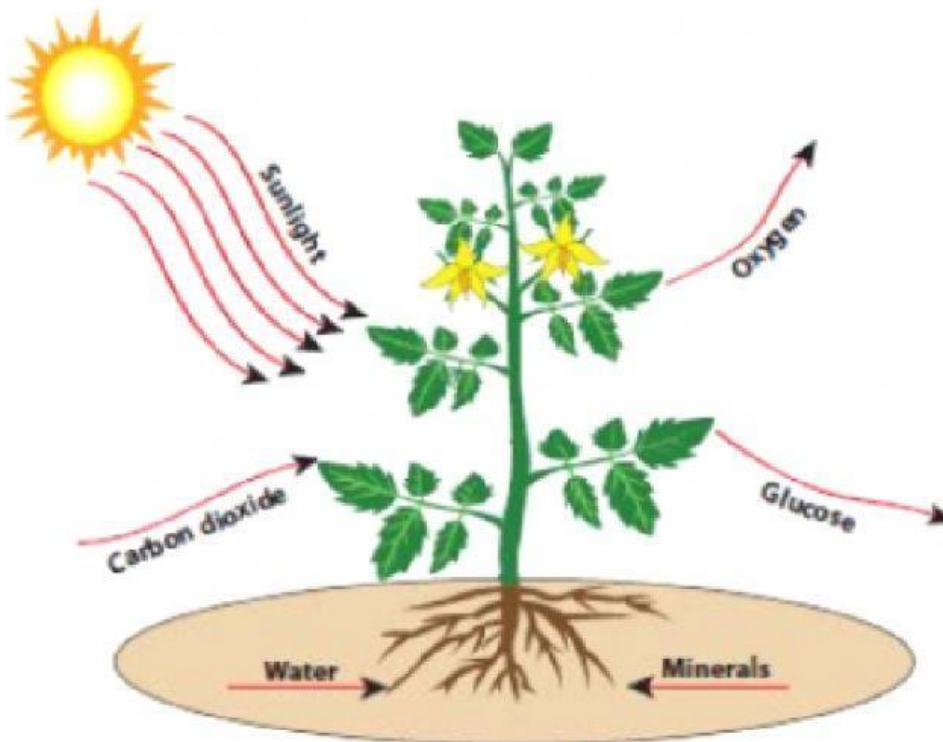


# WHAT IS PHOTOSYNTHESIS?

Complete the paragraph using the words from the word box.

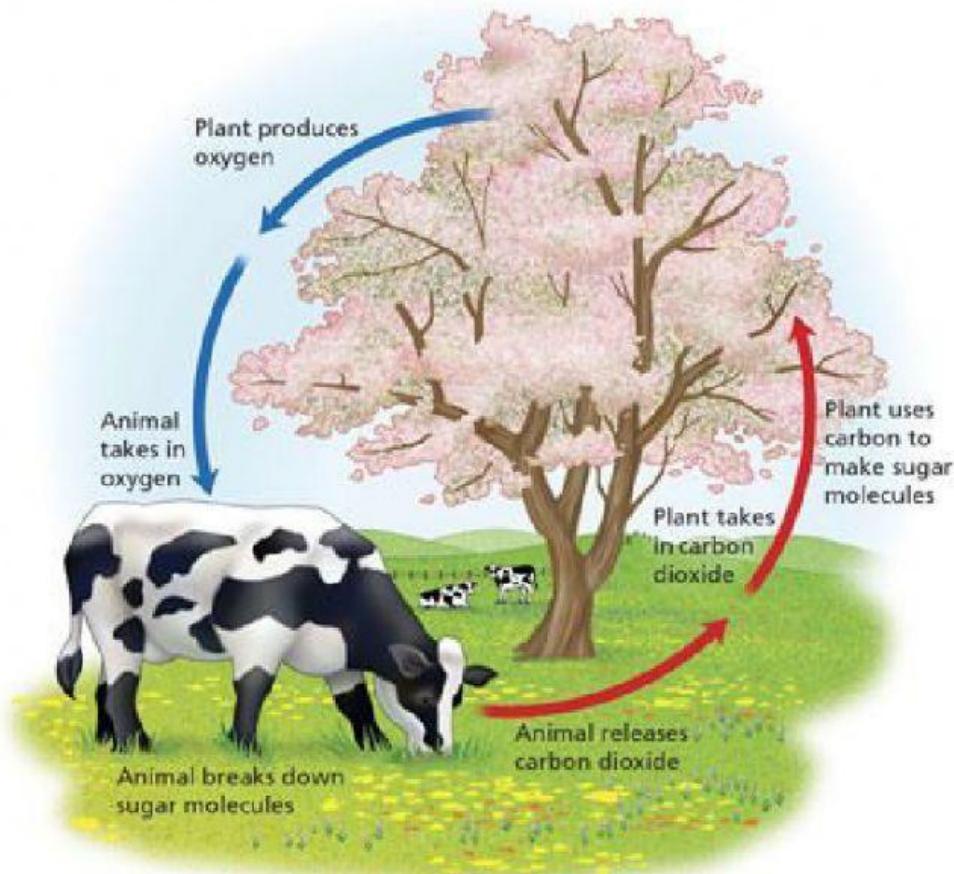


Oxygen  
Sunlight  
Glucose  
Photosynthesis  
Chloroplast  
Water  
Chlorophyll  
carbon dioxide

\_\_\_\_\_ is the process by which plants produce their own food in the presence of \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_. Photosynthesis occurs in the organelle called \_\_\_\_\_ that's only found in plants. Plants contain a green pigment called \_\_\_\_\_ that absorbs sunlight. Energy from the sun, carbon dioxide from the atmosphere and water absorbed by the roots react to produce \_\_\_\_\_ that plants need to survive. \_\_\_\_\_ is a gas that is released into the environment for animals and humans to breathe.

# WHAT IS CELLULAR RESPIRATION?

Complete the paragraph using the words from the word box.



oxygen  
water  
carbon dioxide  
mitochondria  
Cellular  
respiration  
glucose

\_\_\_\_\_ is the process by which both plants and animals convert \_\_\_\_\_ into a usable form of energy called ATP in the presence of the gas called \_\_\_\_\_. Cellular respiration occurs in the organelle called \_\_\_\_\_, which is referred to as the power plant of the cell. As energy is generated for the cell, \_\_\_\_\_ and \_\_\_\_\_ are released into the atmosphere for plants to start the process of photosynthesis. Both of these processes are needed for life on Earth to continue to exist.

# PHOTOSYNTHESIS VS. RESPIRATION

Cellular Respiration and photosynthesis can be thought of as opposite processes. Energy flows in opposite directions in the two processes.

Complete the table using the phrases listed below:

Green plant cells	Chloroplast
Release energy from food	Carbon dioxide + water + ATP
Glucose + O <sub>2</sub>	All cells
Mitochondria	Capture & Store energy
Glucose + O <sub>2</sub>	Carbon dioxide + water + light

	PHOTOSYNTHESIS	RESPIRATION
What is its purpose?		
What type of cells do this?		
What organelle in the cell does this?		
Reactants		
Products		