

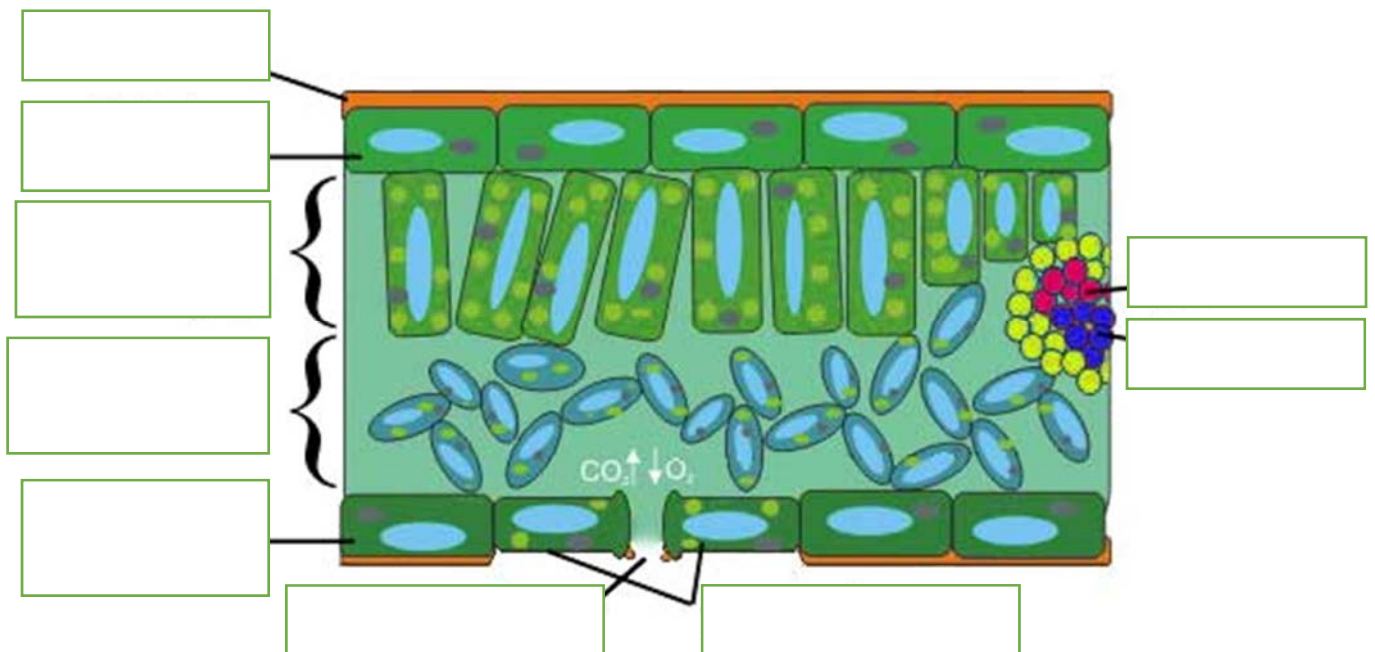
**Match IT:** Draw lines to match up the correct word with the correct definition

Photosynthesis	Exothermic reaction occurring in cells to release energy
Respiration	Site of aerobic respiration
Aerobic	Endothermic reaction in chloroplasts that uses light energy to react carbon dioxide and water to produce glucose and oxygen
Anaerobic	Without oxygen
Exothermic	With oxygen
Glucose	A simple sugar made by plants and used in respiration.
Mitochondria	Energy is released to the surroundings.
Chloroplast	Small organelle that contains chlorophyll.
Chlorophyll	Energy is taken in from the surroundings.
Endothermic	A green substance that absorbs light energy.

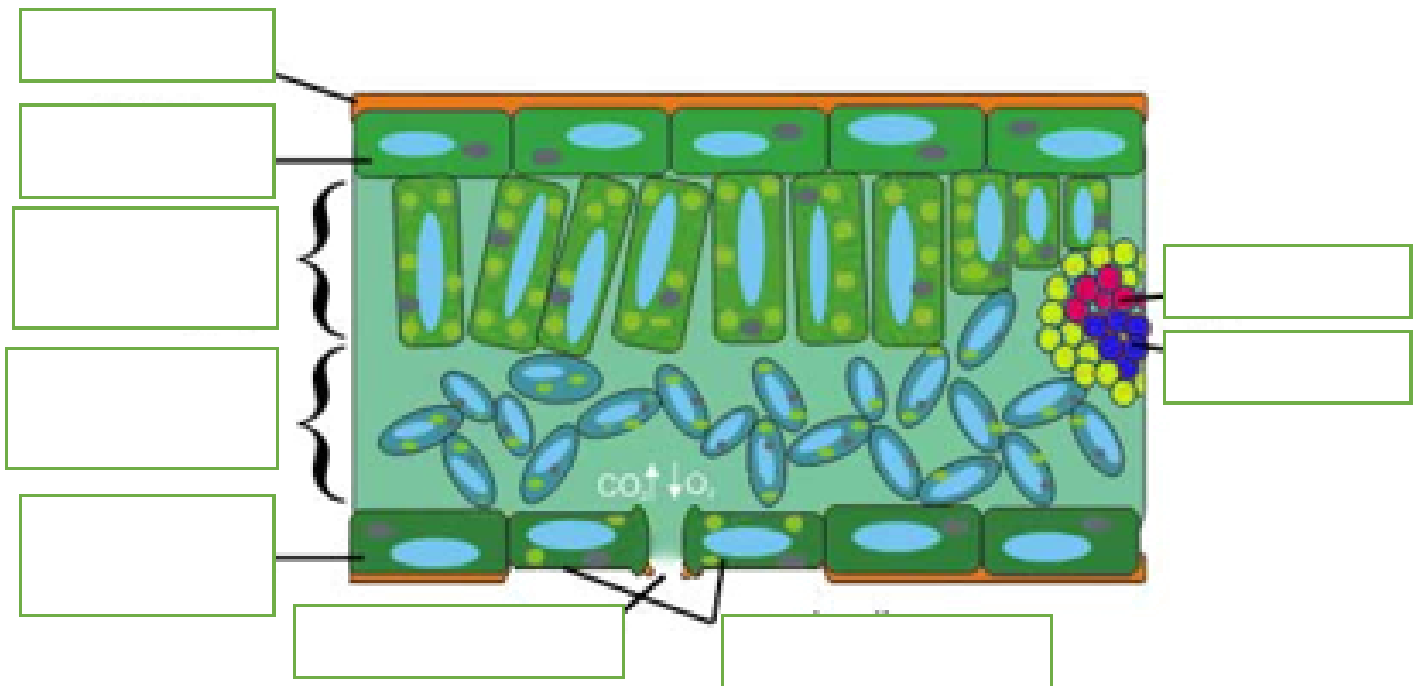
## Label IT

Label the diagram.

Circle in green  
the part where  
photosynthesis  
happens



## Label IT and Match IT



Cuticle (waxy)	These cells can open and close to control gas exchange and water loss.
Upper epidermis	Waterproof layer on the surface of the leaf
Palisade mesophyll	Cells are tall and closely packed to absorb maximum light. They contain many chloroplasts.
Spongy mesophyll	Bottom layer of the leaf that contains the guard cells and stomata
Lower epidermis	For the transport of water around the plant
Stomata	Transparent layer of cells at the surface of the leaf
Guard cells	These cells capture light and makes food. They have air spaces between them to allow easy gas exchange.
Xylem	For the transport of sugars around the plant
Phloem	Tiny holes that allow gas exchange

**Label it**

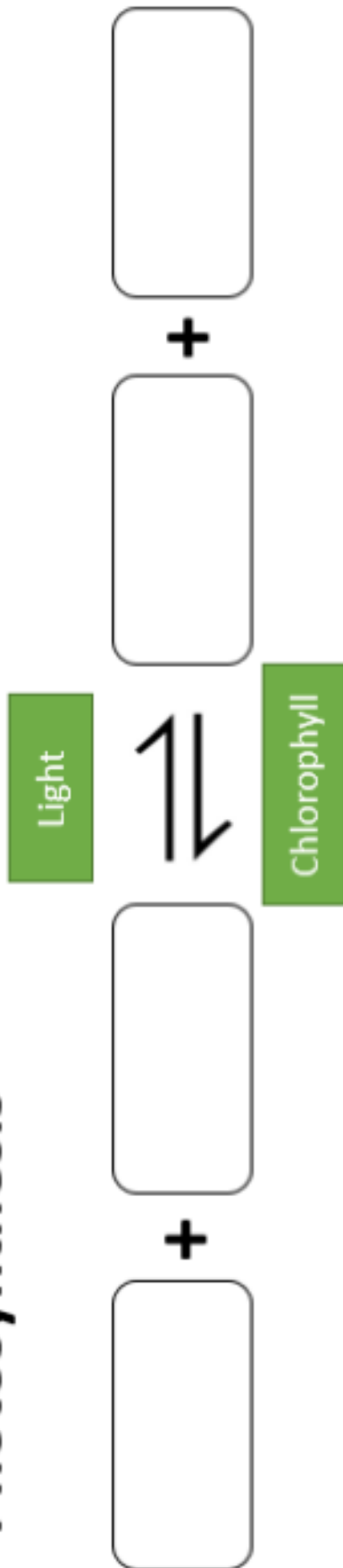
**Circle in red  
the part  
where  
respiration  
happens**



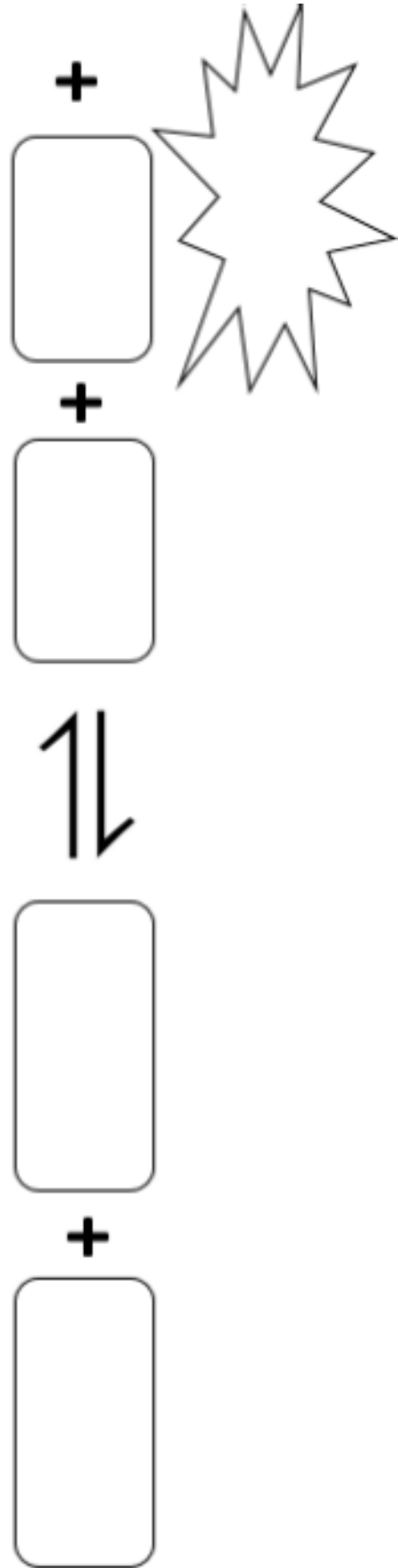
Compound	Chemical formula
Oxygen	
Carbon dioxide	
Water	
Glucose	

Label IT











# Photosynthesis



# Respiration



## Dominos

A green substance that absorbs light energy.	Respiration 
Exothermic reaction occurring in cells to release energy	Mitochondria 
Site of aerobic respiration	Photosynthesis 
Endothermic reaction in chloroplasts that uses light energy to react carbon dioxide and water to produce glucose and oxygen	Anaerobic 
Without oxygen	Aerobic 
With oxygen	Glucose 
A simple sugar made by plants and used in respiration.	Exothermic 
Energy is released to the surroundings.	Chloroplast 
Small organelle that contains chlorophyll	Endothermic 
Energy is taken in from the surroundings.	Chlorophyll 

**Get IT**

Answer the 10 questions as quickly as you can...

1. Which gas is needed for photosynthesis?
2. What type of energy is needed for photosynthesis?
3. Name the waste product of photosynthesis.
4. What is a limiting factor?
5. Tomatoes in a greenhouse grow faster in the carbon dioxide concentration is increased. State the limiting factor here.
6. Where does respiration happen?
7. What product leaves the cells and moves into the capillaries in respiration?
8. What type of respiration needs oxygen?
9. What does anaerobic mean?
10. What is the chemical formula for glucose?

