Life Science - Photosynthesis & Cellular Respiration Prezi **Binder Page _____**

Name:_____ Date: Period:

Directions: Follow along as we go through the prezi below in class together and answer the questions below.

Photosynthesis

What type of cell is photosynthesis occurring in? _____

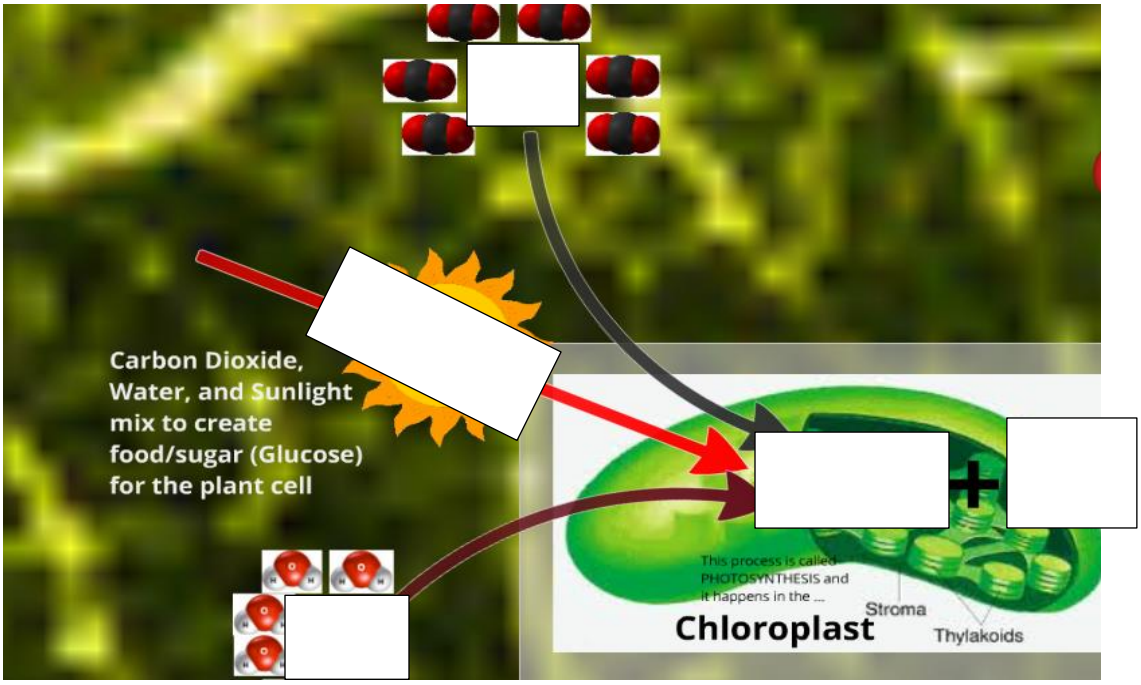
What cell part controls process of photosynthesis?_____

In your own words, what is photosynthesis?_____

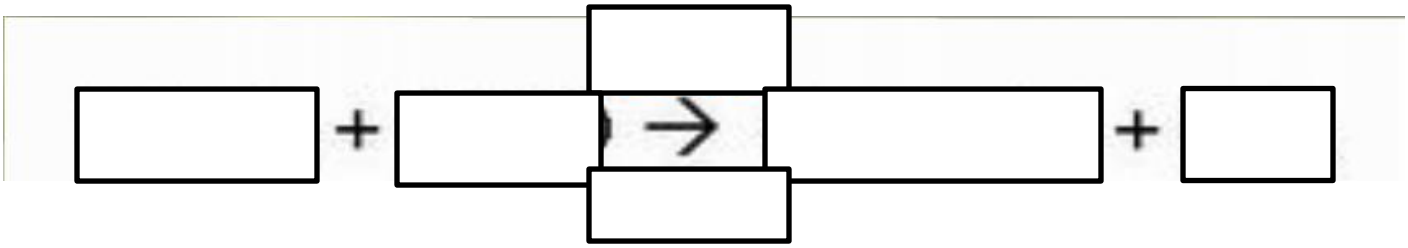
_____

_____

Fill in the **5 blanks** in the diagram below to show the process of photosynthesis:



What is the reaction for photosynthesis?



How many molecules of Carbon Dioxide are used?_____

How many molecules of Water are used? _____

What is type of food is made? _____ How many molecules? _____

How many molecules of Oxygen are made?_____

What happens to the oxygen made from photosynthesis? _____

_____

_____

What happens to the glucose after photosynthesis? (little tricky – two parts to this answer)_____

_____

_____

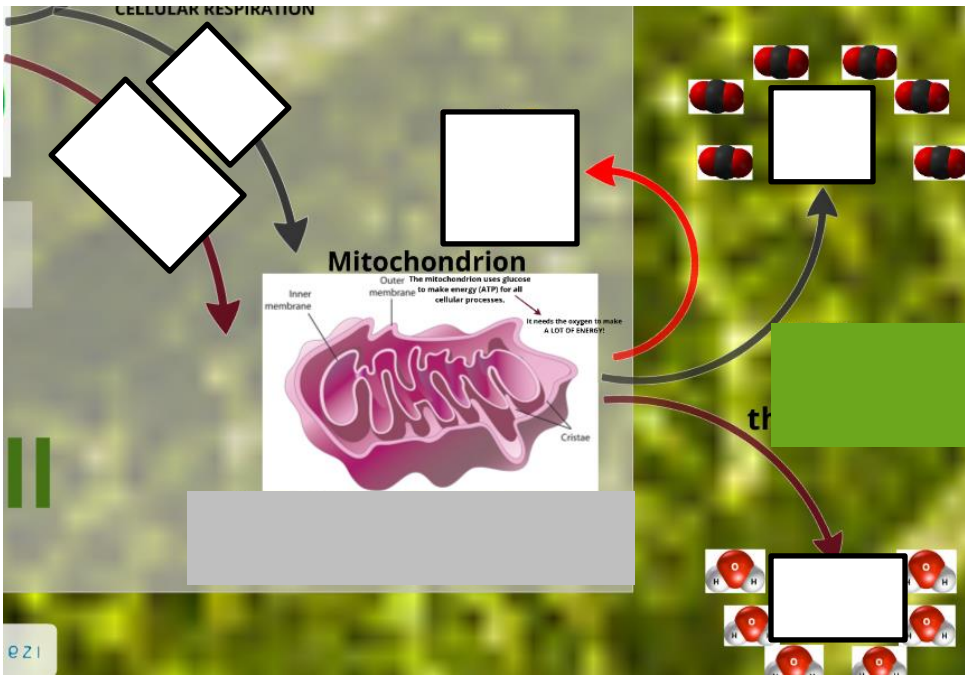
Cellular Respiration

What cell part controls the process of cellular respiration? _____

In your own words, what is cellular respiration? _____

_____

Fill in the **5 blanks** in the diagram below to show the process of cellular respiration:



Why does the mitochondrion need oxygen?_____

_____

_____

How many molecules of **oxygen** are <u>used</u>? _____

How many molecules of **glucose** are <u>used</u>? _____

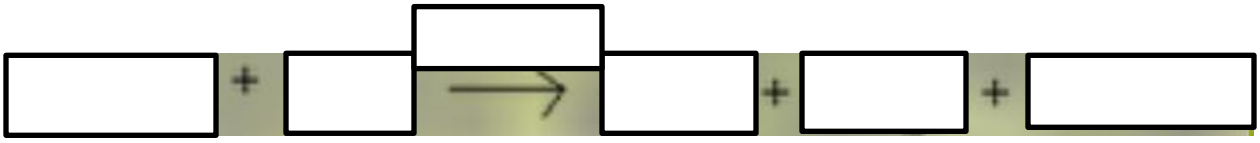
How many molecules of **carbon dioxide** are <u>made</u>? _____

How many molecules of **water** are <u>made</u>? _____

How many molecules of **energy** are <u>made</u>? _____

What is the reaction for cellular respiration?

What are they called? _____



Do plants (or any organisms that use photosynthesis) need animals/humans to live? Provide evidence.

_____

_____

_____

ANaerobic versus Aerobic Cellular Respiration

What types of cells can cellular respiration occur in? _____ & _____

After the girl eats the apple, how does the glucose get into her blood vessels? _____

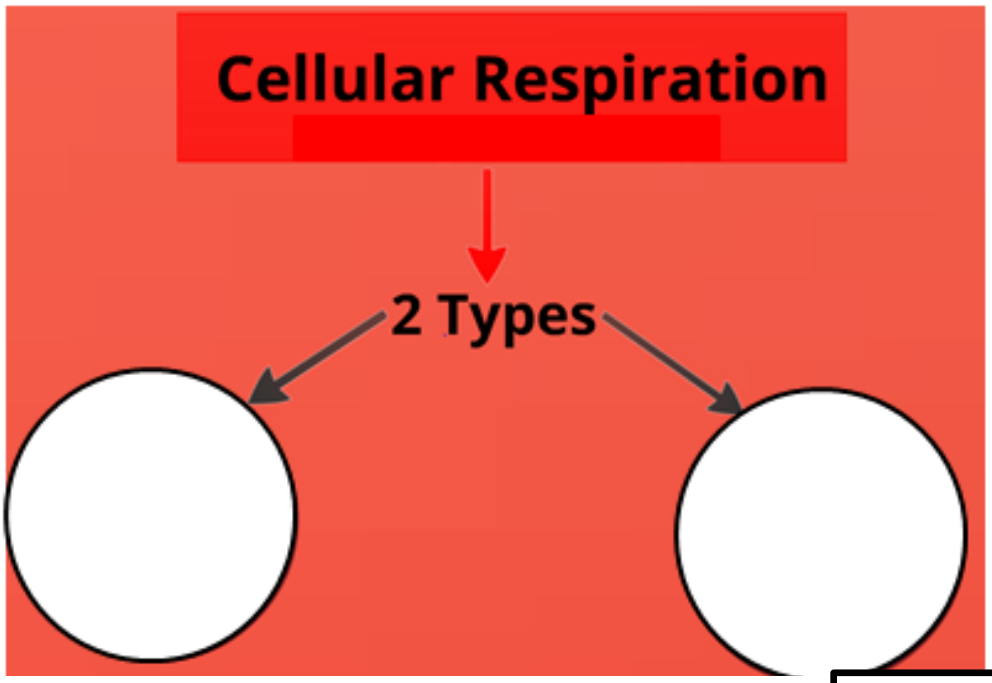
Once glucose is in the blood vessels it's delivered to cells all over the body. How does it get into those cells?

_____

Oxygen also gets into our blood vessels from breathing into our lungs. How does oxygen get from the blood vessels into our cells? _____

Do any of these processes use energy (ATP)? _____

What are the **two types** of cellular respiration? Explain each. (Use the diagram below)



What is the **purpose** of cellular respiration? _____

_____

Where does each type occur? Identify the type and explain.

1) _____

_____

2) _____

_____

Fill in the blanks on the following two diagrams and answer the question beside them.

Cellular Respiration: **ANaerobic**

Where in the cell is anaerobic respiration happening?

_____

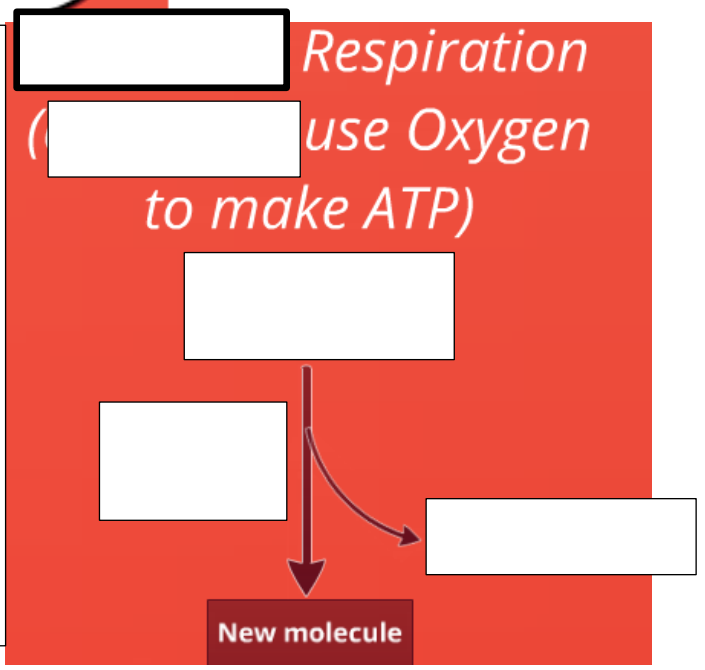
Does this process use oxygen? _____

What type of molecule begins this process?

_____

How many enzymes are used during this process? _____

How many molecules of ATP are made here? _____



What are two types of anaerobic respiration (p. 91 in text book)?_____

_____

What is anaerobic respiration also known as? _____

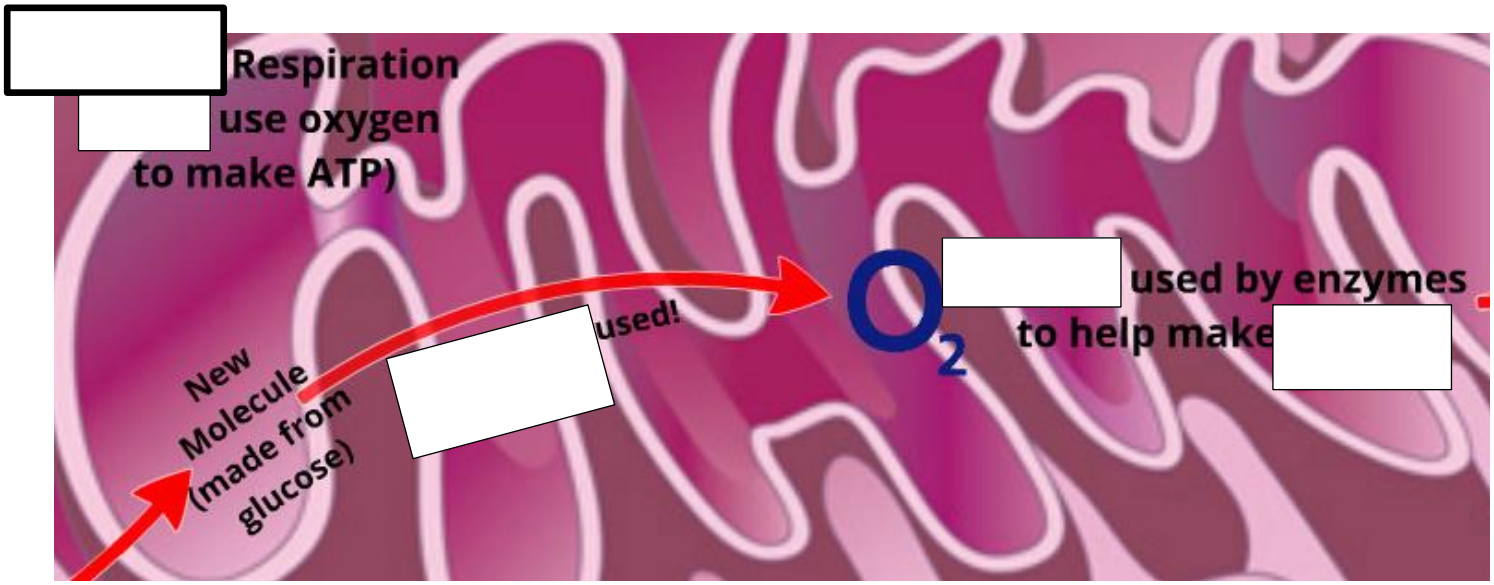
<u>Cellular Respiration:</u> **Aerobic**

Where does Aerobic respiration occur? _____

Does this process use oxygen? _____

How many enzymes are used during this process? _____

How many molecules of ATP are made here? _____



How many **<u>ATP</u>** are made during…	How many **<u>ENZYMES</u>** are made during…
Anaerobic Respiration → _____	**Anaerobic** Respiration → _____
Aerobic Respiration → _____	**Aerobic** Respiration → _____
TOTAL for Cellular Respiration → _____	**TOTAL for Cellular Respiration** → _____

That's it! Make sure to ask questions about any answers you did NOT fill in OR are not sure about.

Use these questions and diagrams to make flashcards out of.