Unit 4: Cell Respiration

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_is the process by which the chemical energy of "food" molecules is released and changed into ATP.

**How is ATP broken down to create energy?**

* Occurs in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of cells

**Why is the mitochondria folded?**

**EQUATION:**

**ALL CELLS UNDERGO \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

|  |  |
| --- | --- |
| **Aerobic Respiration** | **Anaerobic Respiration (AKA \_\_\_\_\_\_\_\_\_\_\_\_\_\_)** |
| * Requires \_\_\_\_\_\_\_\_\_ (O2)
* More efficient
* Produces \_\_\_\_\_\_ ATP molecules
* \_\_\_\_\_\_ is formed

Three Stages:---Where does this occur? | * Does not require \_\_\_\_\_\_\_\_ (O2)
* Less efficient
* Produces \_\_\_\_\_ ATP molecules
* \_\_\_\_\_\_\_ is not formed

2 Types:**Alcoholic:** Happens in \_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_ are produced**Lactic Acid:** Happens in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is producedWhere does this occur? |

Draw concept map of aerobic and anaerobic respiration:

* Both aerobic and anaerobic respiration make \_\_\_\_\_\_\_ and use \_\_\_\_\_\_\_\_\_\_

Draw relationship between photosynthesis and cell respiration: