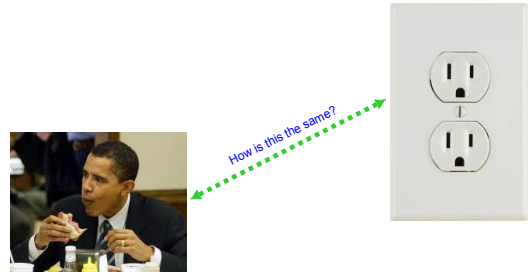
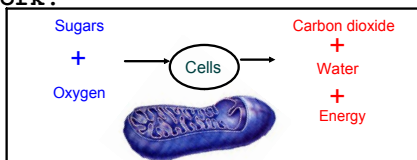


Cellular Respiration



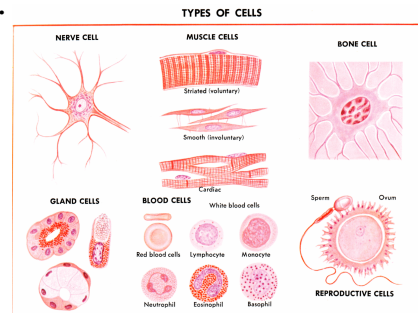
Cellular Respiration: This is how the mitochondria create energy (ATP or adenosine triphosphate) for the cell. Only mitochondria can do this!

Oxygen and sugars are mixed in the mitochondria and energy is released. The energy from each mitochondrion is used by the cell's organelles so they can work.



<https://www.youtube.com/watch?v=4Eo7JtRA7lg>

Different types of cells use different amounts of energy. Therefore they have different numbers of mitochondria to meet these needs.



Examples:

- Cell membranes use energy to bring in molecules.
- Muscles cells need energy to contract and relax.
- Nerve cells require energy to pass on signals to one another.
- Cells use energy to reproduce.

