

Comparison

Chapter 3

Eukaryotic - important distinguishing landmarks

- nucleus is largest most prominent organelle
- Holds DNA + controls cell
- mitochondria

- converts sugar to ATP

* we all have more DNA from one parent than the other

mitochondria comes from mother

- mother's egg carries mitochondria - not sperm

- lysosomes

- garbage disposal of cell

- endomembrane system

smooth ER, rough ER, golgi apparatus

- ribosomes - makes proteins

- rough ER - bring in proteins

- moves it to golgi apparatus

- smooth ER - makes cell membrane

- detoxifier

- to golgi apparatus

- smooth ER controls drug resistance + ability

to withstand more of the drug.

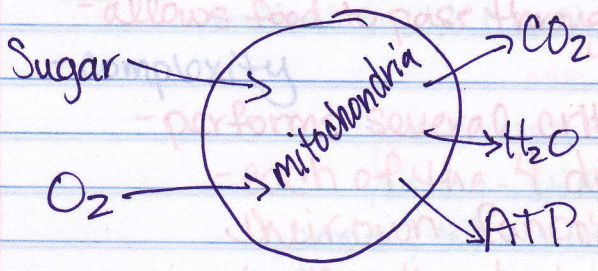
- golgi apparatus - sorts + transports.

- chloroplast

- converts sun to sugar = energy

Cellular Respiration

1 sugar molecule = 34 ATP



Photosynthesis

