

TEST TWO

5.6.!

"Nothing but A
Big Bag of
Chemical Reactions."

STEM Cells ★

therapy transplant grow

CA allowed before the US govt did

Syrs behind Europe & Asia

Differentiated - "Pre determined to become..."

Undifferentiated - Stem cell - undecided as to what to become.

Totipotent - "totally" can become anything - long lived - easy to grow

Pluripotent - can't become everything - short lived - hard to grow

Water ★

Earth has a limited supply

water recycles and purifies

9% of CA econ is Ag.

13% of the U.S.'s total Ag

CA produces over 1/2 of Fruits and Nuts for US.

90% of US Artichokes

All avacados, Almonds

CA = largest Dairy Producer

2% of states 1.6 trillion Econ.

25% H₂O - 5-10% Econ

Cotton deplet Nitrogen and legs H₂O.

Properties of H₂O ★

Cohesion sticks together Adhesion sticks to other things.

Good solvent - circulatory system

ICEFATE

4 types of Macromolecules ★

Sugars / Carbohydrates - FUEL

Lipids / Fats and Oils - LONG TERM Storage

Amino Acids / Protein - BODY Building Molecule

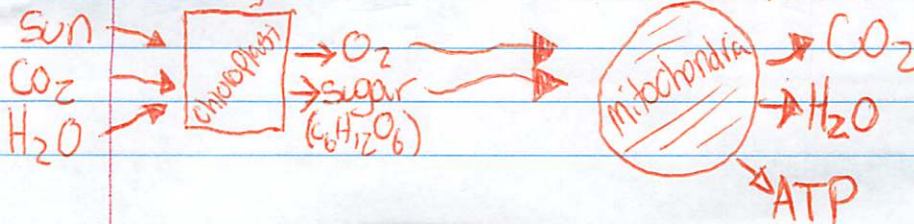
Nucleic Acid / DNA - determines EVERYTHING About you.

Ose - is Sugar

Ase - breaks Sugar

Photosynthesis

Cellular respiration



ALL HELLS
NEED A TIP!

Organelles

- Mitochondria - Burns sugar to ATP - Power Plant of Cell
- Cell Membrane - Maintains homeostasis, protects cell
- Chloroplasts - Turn light to Energy (Photosynthesis)
- Nucleus - Holds DNA - in charge of cell
- Ribosome - Protein factory
- Smooth ER - stores lipids
- Lysosome - digests (engulfs) food
- Golgi Apparatus - modifies proteins

Video Lab

- Rewatch the ~~Life's~~ Greatest Gift video on NOVA
- Know how Sperm and Egg meet.
- Go over "long questions"
- 1,000 Sperm A second

