

DNA holds genetic information to build an organism.

A-T hydrogen bonds
G-C

order of bases determines EVERYTHING about you.

sugar phosphates make the outside of the ladder and nucleotide bases make up the rungs.

CELL Theory

1. all living organisms are made up of 1 or more cells.
2. All cells arise from other pre-existing cells.

A cell is a small - the smallest unit of life, reproduce and does all the chemical reactions to stay alive.

Prokaryote

No Nucleus

Bacterial, Archaea

No organelles

DNA floating

Eukaryote

Nucleus

Protists, Fungi, Plants, Animals.

Lots and varied organelles

DNA LOTS - threads

only organelles in

Plant

Chloroplasts

Vacuole

cell wall

Animal

Centriole

Plasma membrane - "gatekeepers" control and regulate what comes in and out.

Receptor Proteins

Binds to external chemicals in order to regulate processes within the cell.

Recognition Proteins & Transport proteins

Enzyme Proteins