WEEKLY TOPIC: Plant and Animal Cells

Today You Need Out:
1. Agenda Book
2. Cornell notes
3. Cell foldable

weekly’s Agenda:
1. Introduction to cells
2. Cornell notes
3. onion and cheek cell lab
4. Cell parts foldable

Homework:
Cell Project

Weekly Vocabulary:
- cells
- cell Walls
- Cell Membrane
- Nucleus
- Nuclear membrane
- Endoplasmic Reticulum
- Ribosomes
- Mitochondria
- Vacuole
- Chloroplast
- Golgi Body
- Lysosome
ANIMAL AND PLANT CELLS
• **Cell Theory**- states all living things are made of cells
• **CELL**- is the basic building block for an organism and all cells are made up of four macromolecules.
  • PROTEIN
  • NUCLEIC ACID
  • LIPID
  • CARBOHYDRATE
Animal Cells
Parts of the Cell

**CELL MEMBRANE**

**Description** - is made of lipids and protein to form a semi-protective layer around the cell.

**Function** - The lipids in the cell protect the cell from the outside environment. Where the proteins allow the transport of substances between the outer environment into the cell.
PARTS OF THE CELL

Cytoplasm

Description: jelly like substance mostly made of water,

function: which pads and supports contains the organelles
Parts of the cell

**Nucleus**

**Descriptions** - dense ball shaped structure, which contains the DNA (Deoxyribonucleic acid)

**Function** - controls all of the functions in the cell
Parts of the cell

Nuclear Membrane

**Description** - their covering over the nucleus

**Function** - covers and protects the nucleus
Parts of the cell

Endoplasmic reticulum

**Description:** clear, tubular tunnels throughout the cell

**Function:** transport material like protein around the cell
Parts of the cell

Ribosomes

**Description** - small specks made of RNA (Ribonucleic acid) found in cytoplasm or on the ER (endoplasmic reticulum)

**Functions** - makes proteins
Parts of the cell

**Mitochondria**

**Description:** bean shaped structure located in the cytoplasm

**Function:** Supplies energy or ATP for the cell through cell respiration using glucose and oxygen
Parts of Cells

Golgi Body

Description- small bags with tubes connecting them

Function- Packages and secretes protein for use in and out of the cell
Parts of the cell

**Lysosome**

**Description:** Small round structures which contains enzymes

**Function:** Digests older cell parts, food or other objects
Parts of a plant cell

Cell Wall

Description: rigid, tough, made of cellulose

Function: protects and supports the cells
Parts of a plant cell

**Vacuole**

**Description** - large open storage area

**Function** - storage tank for food, water, waste, and enzymes
Chloroplast

**Description** - Green structures; contain chlorophyll

**Function** - Captures sunlight and converts it into energy through photosynthesis