

# BIOLOGY EOC STUDY GUIDE

## SCIENCE BUZZWORDS:

- **Bias:** unfair prejudice towards a particular opinion.
- **Ethics:** a set of principles that guide decision-making.
- **Qualitative:** data that uses non-numerical (not a number) descriptions.
- **Quantitative:** data that can be counted or measured.

## CELLULAR STRUCTURES:

- **Nucleus:** contains genetic material (DNA) and chromosomes.
- **Mitochondria:** respiration occurs here, makes energy, "powerhouse" of the cell.
- **Cell Membrane:** the "roof" of the cell, it encloses the entire cell and facilitates pass through it.
- **Ribosome:** the organelle that makes protein for the cell.
- **Chloroplast:** organelle found in plants that captures the energy from sunlight and converts it into chemical energy.
- **Endoplasmic Reticulum:** a cell structure that forms a mass of passageways in which proteins and other materials are carried from one part of the cell to another.
- **Golgi Bodies:** a complex of vesicles and folded membranes within the cytoplasm of most eukaryotic cells, involved in secretion and intracellular transport (processes proteins).



REMEMBER!

Prokaryotes contain a cell without chloroplasts. Animal cells do not!

## SCIENTIFIC INQUIRY:

- Observations are made by gathering information about events or processes. An inference is a logical interpretation based on prior knowledge or experience.
- A hypothesis is a proposed scientific explanation for a set of observations.
- The variable that is deliberately changed is called the **manipulated variable**. The variable that is observed and changes in response to the manipulated variable is called the **responding variable**.
- A control group is not exposed to the independent variable so that it can be used as comparison to the experimental data.

## TYPES OF CELLS:

- **Prokaryotes:** simple cells that do not have a nucleus. 
  - Ex: Bacteria
- **Eukaryotes:** complex cells that have a nucleus. 
  - Ex: plants, animals, humans, protists and fungi
- Plants and animals are BOTH MADE FROM EUKARYOTIC CELLS

## DNA:

- DNA is composed of nucleotides. The base component is universal in all organisms.
- A nucleotide has a phosphate group, a sugar and a nitrogenous base.
- Nitrogenous bases:
  - Adenine, Thymine, Cytosine and Guanine
  - Base pairing rule -
    - A  $\longleftrightarrow$  T
    - G  $\longleftrightarrow$  C



## EVOLUTION &

### NATURAL SELECTION

- **Natural Selection:** Organisms with favorable traits during their lifetime will breed and pass on their traits more than those who do not have them.
- **Evolution:** How organisms change over many generations.
- **MUTATION** happens during a single generation (just a gain/loss of a big molecule like weight lifting).
- First proposed by Charles Darwin in the 1800's.

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