

# 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 common sense (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 "door" 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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**M Woodhall**



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## **Table of Contents Biology Eoc Study Guide 23**

1. Understanding the eBook Biology Eoc Study Guide 23
  - The Rise of Digital Reading Biology Eoc Study Guide 23
  - Advantages of eBooks Over Traditional Books
2. Identifying Biology Eoc Study Guide 23
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Biology Eoc Study Guide 23
  - User-Friendly Interface
4. Exploring eBook Recommendations from Biology Eoc Study Guide 23
  - Personalized Recommendations
  - Biology Eoc Study Guide 23 User Reviews and Ratings
  - Biology Eoc Study Guide 23 and Bestseller Lists
5. Accessing Biology Eoc Study Guide 23 Free and Paid eBooks

- Biology Eoc Study Guide 23 Public Domain eBooks
  - Biology Eoc Study Guide 23 eBook Subscription Services
  - Biology Eoc Study Guide 23 Budget-Friendly Options
6. Navigating Biology Eoc Study Guide 23 eBook Formats
- ePub, PDF, MOBI, and More
  - Biology Eoc Study Guide 23 Compatibility with Devices
  - Biology Eoc Study Guide 23 Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Biology Eoc Study Guide 23
  - Highlighting and Note-Taking Biology Eoc Study Guide 23
  - Interactive Elements Biology Eoc Study Guide 23
8. Staying Engaged with Biology Eoc Study Guide 23
- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Biology Eoc Study Guide 23
9. Balancing eBooks and Physical Books Biology Eoc Study Guide 23
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Biology Eoc Study Guide 23
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Biology Eoc Study Guide 23
- Setting Reading Goals Biology Eoc Study Guide 23
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Biology Eoc Study Guide 23
- Fact-Checking eBook Content of Biology Eoc Study Guide 23
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development

- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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15 basic designs 11 of which were for the martin house itself

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web the 394 pieces of art glass contain eleven interrelated primary art glass themes some of which are artificially lit from behind the art glass combines detailed highly stylized organic designs in colored glass to maintain privacy coupled with large panels of clear glass to bring in the surrounding outdoors

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web this distinctive structure which was commissioned by a ds hollyhock house art glass 137 00 aline barnsdall commissioned wright to build one of his greatest architectural achievements atop a hill in hollywood the hollyhock house in honor of her favorite flower the geometric pattern found ds thomas entry light art glass 124 00

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web martin house maintains preserves and exhibits a fine collection of works of art designed or selected by frank lloyd wright for the martins as well as objects related to the family and the history of their home a historic furnishings plan was completed in 2008

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