

ECOLOGY:

Ecology - The study of organisms in the Biosphere and how they react to each other and their environment.

Biosphere - Everywhere life is found on Earth.

Biome - Group of ecosystems that share similar climates and living organisms.

Ecosystem - All organisms that live in a particular area and their physical environment.

Community - All different populations that live near each other.

Population - Group of individuals that belong to the same species and live in the same area.

Species - Group of similar organisms that can breed and reproduce together.

Biodiversity - The variety of life in the world or in a particular habitat or ecosystem.

CHEMISTRY OF LIFE:

All living things are made of atoms.

Atoms - Made out of protons (+) and neutrons in the nucleus, and electrons (-) that orbit the nucleus.

- We are made out of these atoms put together in different organic chemical compounds.

Carbohydrates - simple sugars, starches

Lipids - fats, oil, waxes

Proteins - structure (muscles) and enzymes

Nucleic acids - DNA or RNA



ECOLOGY - COMMUNITY INTERACTIONS

Competition - Occurs when organisms compete for the same resource at the same place at the same time.

Predation - An interaction in which one organism captures and feeds on another organism.

Symbiosis - Any relationship in which two species live closely together.

Mutualism - A type of symbiosis in which both species mutually benefit from the relationship.

Commensalism - A type of symbiosis in which one organism benefits and another is neither helped nor harmed.

Parasitism - A type of symbiosis in which one organism lives on or inside the other organism and harms it.

FOOD WEBS & ENERGY PYRAMIDS:

- Food webs show the feeding relationships between plants and animals in an ecosystem.
- Arrows show the relationships. They show the direction of energy transfer. (the organism that the arrow is pointing to eats the organism the arrow is coming from)
- Energy pyramids show the relative amounts of energy at each trophic level. The amount of energy is greatest at the bottom of the pyramid and lowest at the top of the pyramid.
- Trophic Level - Each step in a food web or pyramid.



PREFIXES/SUFFIXES TO KNOW:

Bio - Life (biology is the study of life)

Geo - Earth (geology is the study of the earth)

Hetero - Different (heterozygous means different genes)

Homo - Same (homozygous means same/similar genes)

A - Not (achete is not a plant, not living)

Thermo - Heat/temperature (thermostats)

Eco - Environment/outdoors (ecology is the study of outdoors)

Chem - Chemical (chemosynthesis is creating chemicals)

Photo - Light (photography uses light to take pictures)

Synthetic - Created (photosynthesis uses light to create food)



Biology Eoc Study Guide Scientific Method

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1. Understanding the eBook Biology Eoc Study Guide Scientific Method
 - The Rise of Digital Reading Biology Eoc Study Guide Scientific Method
 - Advantages of eBooks Over Traditional Books
2. Identifying Biology Eoc Study Guide Scientific Method
 - 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 Scientific Method
 - User-Friendly Interface
4. Exploring eBook Recommendations from Biology Eoc Study Guide Scientific Method
 - Personalized Recommendations
 - Biology Eoc Study Guide Scientific Method User Reviews and Ratings
 - Biology Eoc Study Guide Scientific Method and Bestseller Lists
5. Accessing Biology Eoc Study Guide Scientific Method Free and Paid eBooks
 - Biology Eoc Study Guide Scientific Method Public Domain eBooks
 - Biology Eoc Study Guide Scientific Method eBook Subscription Services
 - Biology Eoc Study Guide Scientific Method Budget-Friendly Options

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 - ePub, PDF, MOBI, and More
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 - Biology Eoc Study Guide Scientific Method Enhanced eBook Features
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 - Highlighting and Note-Taking Biology Eoc Study Guide Scientific Method
 - Interactive Elements Biology Eoc Study Guide Scientific Method
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 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Biology Eoc Study Guide Scientific Method
9. Balancing eBooks and Physical Books Biology Eoc Study Guide Scientific Method
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 - Creating a Diverse Reading Collection Biology Eoc Study Guide Scientific Method
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Biology Eoc Study Guide Scientific Method
 - Setting Reading Goals Biology Eoc Study Guide Scientific Method
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Biology Eoc Study Guide Scientific Method
 - Fact-Checking eBook Content of Biology Eoc Study Guide Scientific Method
 - 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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