

Biology EOCT Study Guide

Adapted from the Biology EOCT study guide available at www.galdec.org

UNIT 0 - Scientific Method: IGHEAD

Identify problem/purpose

-What question are you trying to answer?

Gather information/research

-What do you already know / need to find out?

Hypothesis

-A testable statement. Written in "If.... then...." format.

Experiment

-Testing the hypothesis

-Independent variable – what is changed in the experiment (what the experimenter controls)

-Dependent variable – what you get from the experiment (the outcome of the change you made)

-Control Group – the "normal" group used for comparison

-Experimental Group – the group you are testing your independent variable on

Analyze Data

- Analyze the results / often involves graphing quantitative data

Draw Conclusions

-Was your hypothesis correct or incorrect? What could your data mean?

Types of Research:

Qualitative: descriptive data, observations, etc.

Quantitative: numerical data (SI Units)

UNIT 1 – Ecology

Biotic factors – all the living organisms in an ecosystem (plants, animals, bacteria)

Abiotic factors – the nonliving factors in an ecosystem (light, water, temperature)

Levels of Organization:

- Organism – an individual of a species (cow)
- Population – a group of organisms of the same species (a herd of cows)
- Community – the many populations within an ecosystem (the cows, grass, flies, etc.)
- Ecosystems – the living things in the community plus the nonliving things (cows, grass, rocks, streams)
 - Terrestrial – land ecosystems
 - Aquatic – water ecosystems
 - Marine – salt-water ecosystems
- Biosphere – all of the ecosystems on Earth

Where Organisms Live:

Habitat – the place where an organism lives

Niche – the role an organism plays in its habitat

Biodiversity – the variety of living things in a given area (highest near the equator)

- Ecosystem diversity – the variety of habitats, communities, and ecological processes
- Species diversity – the number of different species in the biosphere
- Genetic diversity – to total number of the different forms of genetic information found in all living things

Biomes – tundra, taiga, temperate forests, grasslands, desert, tropical rain forests

- Each biome is characterized by its unique climate (temperature & precipitation)

- The climate determines what plants & animals can survive there.

Succession – changes that take place in a community

- Primary succession – occurs in a community where life did not previously exist (lava flow, glacier melts)
 - Begins w/ BARE ROCK
 - Pioneer species – the first organism that moves into the community (usually lichens and mosses)
 - Once soil is established, grasses, shrubs and trees move in

Theory vs. Law

- Theory: an explanation of a natural phenomenon that is supported by a large body of scientific evidence obtained from many different investigations and observations.
 - Repeated testing of hypothesis
- Law: fact of nature
 - Law of Gravity and Law of Motion

UNIT 0 - Characteristics of Living Things

What is Biology??? The Study of Life

Organism – anything that has all the characteristics of life

Living Things...

- Are made of cells
- Reproduce
- Are based on a universal genetic code (DNA)
- Grow and develop
- Obtain and use materials and energy
- Respond to their environment
- Maintain a stable internal environment
- Change over time

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