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Biology Benchmark Review

Section 1: Lab Safety and the Scientific Method

- List some Lab equipment found in the laboratory. Look over your lab safety symbols
- List 6 Lab safety equipment devices found in the lab.
- Review Safety Rules
- List the steps of the scientific method.
 What is another word for an educated guess? 6.
- What is a statement made in advance?
- What is a theory
- What is the one factor that changes in an experiment?
 Compare and contrast qualitative and quantitative research.
- 11. Compare and contrast independent and dependent, or manipulated vs. responding variables, respectively.

- Section 2: Characteristics of Life
 1. What is the basic unit of life?
 - What is homeostasis?
 - Where does almost all energy for life on earth come from?
 - How do plants produce energy?
 - Organisms that make their own food are called
 - Organisms that must take in food are known as
 - What are the characteristics of life?
 - Define each of the following types of biology:

Biology -

Ecology-

Paleontology-

Taxonomy

Zoology-

Evolution-

What is a phylogeny? What is a phylogenetic tree?

Section 3: Cell Structure and Function

- What is a prokaryotic cell? What two kingdoms represent this cell type?
 What is a eukaryotic cell? What kingdoms are included in this cell type?
- What is an organelle?
- List the 3 parts of the cell theory.
- Distinguish between cilia and flagella.
- Compare and contrast plant cells and animal cells. Give the function for each organelle:
- - Nucleus
 - b.
 - Golgi apparatus-Endoplasmic reticulum Mitochondria c.
 - d.
 - Lysosome
 - f. ribosome
- What do chloroplasts do? And what do they contain? What type of cell contains this organelle? Tell what each Scientist is known for:
- - b. Anton von Leeuwenhoek c. Robert Hooke –
- 10. Who were the men responsible for developing the cell theory?