**Chapter 1**

Biology

\*Five characteristics of life (explain)

Ethics

Evolution

Data

Experiment

Control

 Technology

 Hypothesis

 Theory

 Scientific method

 Dependent variable

 Independent variable

 **Chapter 17**

 Classification

 Aristotle

 Linnaeus

 Taxonomy

 Dichotomous key

 Six kingdoms (characteristics and examples)

 Phylogeny

 Binomial nomenclature

 Scientific names

 How many species?

\*Eight taxa / Human taxa/ characteristics

**Chapter 6**

Atomic Number

Nucleus of an atom

Electron cloud

Energy level

How many atoms in H2O?

Four most common elements in humans

Ionic bonds vs. Covalent bonds

Solution

Polar

pH Scale

 Acid / Base / Neutral

Carbohydrate

Starch

Cellulose

Glycogen

Protein vs Amino Acid

Polymer

Enzyme

Lipid

Unsaturated fat vs. Saturated fat

Isomers

Why do elements form compounds?

**Chapter 7**

Microscope (types/parts/history)

Eukaryotic vs. Prokaryotic

Who discovered the cell?

Organelle

Which two organelles contain DNA?

Nucleolus

Chloroplast (function)

Label Parts: (Grana / Stroma / Thylakiods)

Mitochondria

Vacuole

Golgi Apparatus

Ribosome

Cell Wall

Lysosome

Nucleus

Endoplasmic Reticulum

Cytoplasm

Centrioles

Levels of Organization (cell-organism)

**6.2/7.2/8.1**

Osmosis

Diffusion

Active transport

Passive transport

Hypotonic solution

Hypertonic solution

Isotonic solution

Dynamic equilibrium

Facilitated diffusion

Endocytosis

Exocytosis

Polar heads

Non-polar tails

Proteins

Cholesterol

Fluid mosaic

Saturated vs. unsaturated fatty acids

Plasma membrane function

Turgor pressure

Nutrients vs. wastes of cell