Honors Biology Midterm

Study Guide Part 3

Characteristics of Life

Homeostasis

Cellular Respiration

Photosynthesis

Metabolism

Neutron

Electron

Proton

Experimental variable

Elements that make up organism

Isotopes

Hydrophobic

Hydrophilic

Organic molecules

Saturated fats

Unsaturated fasts

Ribosomes

Plasma membrane (cell membrane)

Prokaryotic cells

Eukaryotic cells

Central vacuole

Differences of prokaryotic vs eukaryotic cells

Lysosomes

Rough ER

Smooth ER

Nucleolus

Main source of energy

Chemical formula

What are organic molecules made up of?

Carbohydrates

Compound light microscope

Electron microscope

Mitochondria

***Additional Questions:***

1. What is the difference between principle and law?
2. How can a buffer assist organisms?
3. What are the four types of organic compounds? State each organic compounds building blocks.
4. What is the difference between renewable and nonrenewable?
5. What is the difference between photosynthesis and cellular respiration?
6. Describe the process of cellular respiration.
7. What is the difference between aerobic and anaerobic respiration?

***You will also need to know the following:***

Forms of Energy (worksheet with definitions)

Organelles and their functions

Scientific Method

Labeling:

 Atom

 Protein structures

 Microscope

 Animal cell