Name:	Biology, Period

## Midterm Review for Biology - 520

#### Chapter #1 - The Science of Biology (19 terms)

#### 1.1 What Is Science?

Describe the steps used in scientific method.

- Hypothesis If...then...
- · Identify independent variable versus dependent variable
- · Identify controlled variables
- · Identify control group versus experimental group

#### 1.2 Science in Context

Explain what a scientific theory is.

#### 1.3 Studying Life

Identify the 8 characteristics of living things. Convert within the metric system (cm - m - km; mL - L, g - kg)

#### Chapter #2 -The Chemistry of Life (39 terms)

#### 2.1 The Nature of Matter

Identify the three subatomic particles found in atoms, and their location.

- Proton
- Neutron
- Electron

Explain how all of the isotopes of an element are similar and how they are different. Define compound.

Describe the two main types of chemical bonds.

- Ionic
- Covalent

#### 2.2 Properties of Water

Draw a water molecule showing the positive and negative sides.

Discuss the unique properties of water.

- Hydrogen bonding
- Adhesion
- Cohesion

Differentiate between solutions and suspensions.

Explain what acidic solutions and basic solutions are.

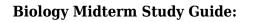
pH

#### 2.3 - Carbon Compounds

Describe the unique qualities of carbon.

# **Biology Midterm Study Guide**

**AW Chickering** 



Unveiling the Magic of Words: A Review of "Biology Midterm Study Guide"

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