

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.

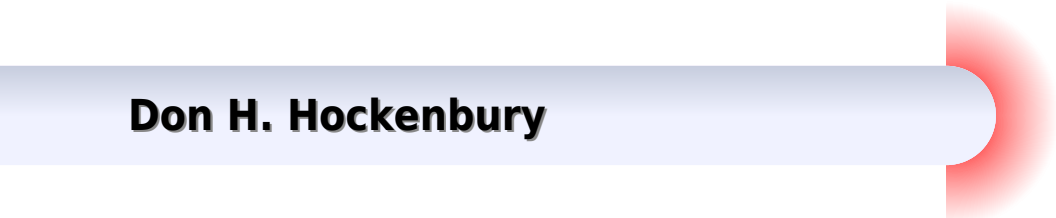
- pH

#### 2.3 - Carbon Compounds

Describe the unique qualities of carbon.

# Biology Midterm Study Guide

**Don H. Hockenbury**



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