

## UNIT 1 – INTRODUCTION TO BIOLOGY/SCIENTIFIC METHOD

### 1. Define: homeostasis and metabolism.

- Homeostasis - is the state of balance among all the body systems needed for the body to survive and function correctly.
- Metabolism - is the total sum of all chemical reactions that take place in the cells.

### 2. What are the 8 characteristics of life?

1. Organized/ Made of Cells
2. Reproduce
3. Grow and Develop
4. Maintain Homeostasis
5. Change over Time
6. Have DNA/RNA
7. Respond to Stimuli
8. Obtain and Use materials for Energy

### 3. Define: hypothesis, theory, conclusion, independent variable, and dependent variable.

- Hypothesis - A possible explanation for observations or the answer to a scientific question
- Theory - a explanation of the world that is constructed through the use of the scientific method
- Conclusion - Determine whether the hypothesis is supported or rejected based upon the experiment and answer the original scientific question
- Independent Variable - the variable that is changed by the experimenter
- Dependent Variable - the variable that changes in response to the independent variable

### 4. What is the difference between a control variable and a control trial? Provide an example of each.

A control variable is a variable that is kept constant throughout each group/trial of the experiment. On the other hand, a control group/trial is the group that is identical to the experimental groups but is not exposed to the variable being tested. For example in an experiment to see the effect of temperature on plant growth the control variable would be the amount of water given to each plant while the control group would be a plant that is kept at room temperature.

### 5. What are the 3 main parts of an atom? Draw a typical atom, showing the locations and charges associated with each.

# Honors Biology Study Guide Answers Scientific Method

**S Ashworth**



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