

Name: KEY

# Biology - Semester Test Review Guide

## Mrs. Reed

The semester test will cover all information from the beginning of school (Units 1, 2, & 3). This includes: Characteristics of Life, The Scientific Method, Classification, Viruses, Bacteria, Protists, Fungi, & Biochemistry. \*\*\*Cells will NOT be on this test\*\*\*

You should study your notes!!

***\*\*Remember: You may also use a 3 x 5, handwritten note card on your exam. You may use both sides, but the index card must be an original and not a photocopy.***

### Unit 1: Characteristics of Life, The Scientific Method, & Classification

1. The independent variable in an experiment is – **What I change**
2. The dependent variable in an experiment is – **What I observe**
3. What is a hypothesis? **What do you think will happen**
4. What is a control? **Group that stays the same**
5. What are the 8 characteristics of life?
  1. **Evolve**
  2. **Made of Cells**
  3. **Genetic material RNA/ DNA**
  4. **Requires Energy**
  5. **Growth & Development**
  6. **Maintain Homeostasis**
  7. **Reproduce**
  8. **Responds to stimuli (environment)**
6. Four characteristics of viruses are:
  1. **Not Alive or made of cells**
  2. **Can only reproduce inside a host cell**
  3. **Variety of Shapes**
  4. **Can remain dormant for years**
7. Viruses are made of DNA/RNA material surrounded by a Protein Coat.
8. List 4 diseases that are caused by viruses:
  1. **HIV / AIDS**
  2. **H1N1**
  3. **Polio**
  4. **Flu & many others (Chicken Pox, Herpes, Rabies, West Nile, Mono)**
9. Viruses that infect and kill bacteria are known as?  
**Bacteriophage**
10. How is the treatment for a bacterial infection different from that of a viral infection?  
**Viruses can only be prevented by vaccines. Bacterial infections can be treated with Antibiotics**
11. How does a vaccine work?  
**Person gets a weakened or dead amount of the virus to help them to make antibodies.**
12. What is a dichotomous key? (You will need to know how to use one)  
**It's a step by step method of classifying organisms**
13. The classification systems from largest to smallest is:  
Kingdom Phylum Class Order Family Genus Species

# Nd Semester Biology Semester Test Study Guide

**S Ashworth**



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