**Unit 7: Evolution Test Part 1 Create-Your-Own Study Guide Info Sheet**

**60 Points**

**Directions:** Use the assignments listed and the textbook chapters listed to create your own study guide for your upcoming test. *Following proper classroom procedures during this assignment MAY result in the privilege of using this study guide on your test next class. Ms. McCabe reserves the right to make that decision at any time.* NO PHONES!!!

**Assignments Needed**

1. Origin of Life Flowchart (Remove from the wall if you posted yours)
2. Origin of Life Reading Guide Packet
3. Guided notes: Unit 7 Mechanisms of Evolution *Mutation & Recombination*
4. Genetic Variation Graphic Organizer
5. Mechanisms of Evolution Reading Guide Packet
6. Genetic Drift Simulation: Driftworms (If you did not do this activity, you need to find it on the website or take a picture of someone else’s)
7. Isolating Mechanisms of Speciation Compare/Contrast Table
8. Darwin’s Finches Flowchart
9. Natural Selection Lab & Lab Conclusion
10. Evolution Concept Map

**Materials Needed**

1. Textbook Chapters 16, 17, 18, & 19
2. Standards (see requirements below)
3. Guiding Questions (see requirements below)
4. Pencil
5. 2 sheets of notebook paper

**REQUIREMENTS**

1. 30 Questions & Correct Answers for the material needed (Any format: multiple choice, true/false, essay…)
2. Standards Covered
   1. Describe the scientific explanations of the origin of life on Earth.
   2. (Honors) Explain the evidence supporting the scientific theory of the origin of eukaryotic cells (endosymbiosis).
   3. Describe the conditions required for natural selection, including: overproduction of offspring, inherited variation, and the struggle to survive, which result in differential reproductive success.
   4. Discuss mechanisms of evolutionary change ***other than*** natural selection such as genetic drift and gene flow.
   5. Describe how mutation and recombination increase genetic variation.
   6. (Honors) Describe how biological diversity is increased by the origin of new species and how it is decreased by natural process of extinction.
3. Guiding Questions Covered (IN YOUR OWN WORDS ONLY!)
   1. How did past experiments lead to the development of the scientific explanation for the origin of life?
   2. Recognize the work of Redi and Pasteur and how life arises.
   3. Describe the conditions on early Earth that made the origin of life possible.
   4. Understand the apparatus/contribution of the Miller-Urey experiment.
   5. How did eukaryotic cells originate?
   6. What are the major causes and effects of natural selection?
   7. What influence do genetic drift and gene flow have on evolutionary change?
   8. Illustrate how genetic drift and gene flow lead to population isolation.
   9. How do mutation and genetic recombination impact evolutionary change?
   10. Describe how mutation and genetic recombination increase genetic variation.
   11. How do speciation and extinction affect biological diversity?
4. **Turn in to the white basket for your class on the day of your test.**