**Student Name:**

**Teacher Name:**

**Date:**

**Subject:**

**Unit 1 Study Guide**

1. Describe what happened in the Paleozoic Era.
2. Describe what happened in the Mesozoic Era.
3. Describe what happened in the Cenozoic Era.
4. Describe the following types of fossils:
   1. Mold & cast
   2. True form
   3. Trace
   4. Carbon film
5. In a layer of rock, how can you tell which fossil is oldest and which is youngest?
6. Explain two factors that affect whether or not an organism will transform into a fossil.
7. Describe two ways that water helps to create fossils.
8. What is unaltered preservation?
9. What is carbonization?
10. What is evolution?
11. How does the fossil record give evidence about evolution?
12. How does homology give evidence about evolution?
13. Describe the different types of homology:
    1. Anatomical
    2. Cellular
    3. Molecular
14. What is a vestigial structure? Give an example.
15. How does studying embryological development give evidence about evolution?
16. How is natural selection and evolution dependent on reproduction?
17. Use Darwin’s finches to explain how natural selection leads to evolution.