

Summative Assessment Review

1) A Scientific theory is best described as _____

2) Read each of the events below. Then place the letter that corresponds to each event in the order in which it occurred during the development of the Theory of Evolution. Use the timeline below with the oldest event on the left and the most recent on the right.

A) Mutations in the DNA lead to trait differences and can be inherited

B) Fossils are the preserved remains of animals that are no longer alive

C) Theory that life changed over time and that the mechanism was natural selection where those in the population.

D) Competition for resources in a population will cause most individuals in each generation to die without reproducing.

E) Theory that life changed in response to the environment and that the mechanism was use and disuse. If an organism uses a part of its body then they enlarge and they pass that trait change to the next generation.

F) Fossils deeper under the earth are older than fossils closer to the surface, and provide evidence that life had changed over time.

Oldest

Most Recent

3) Identify 3 researchers whose work has shaped the development of the theory of evolution. Describe the approximate date of their research and how they contributed to the theory.

a. _____

b. _____

c. _____

4) What are the characteristics of a Scientific Theory?

5) Evolution is defined as _____

6) Evolution requires three things

7) List Three pieces of evidence for evolution and explain how each shows evidence of common ancestry.

a. _____: _____

b. _____: _____

c. _____: _____

8) What is the source of genetic variation in species? _____

9) Explain why genetic variation is necessary for evolution to occur. _____

10) List the 4 components that are present when natural selection causes evolutionary change in a population.

a)

b)

c)

d)

11) Describe the similarities and differences between artificial and natural selection.

12) Define a Species. _____

13) List two components necessary for speciation to occur?

14) How does this lead to the creation of new species?