**Freshman Biology Standard 5/Objective 2 – Study Guide**

Evolution is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_!

Evolution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

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**It is rational to believe**

**that mountains evolve.**

Why?

What type of evolution is the evolution of mountains?





How are fossils evidence of evolution?

Observation:

Inference:

Chemical Dating:

Half-Life:

Embryology:

**DNA Structure Similarities**

Vestigial Structures (Vestiges):



Examples:

Homologous Structures:

**\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_**

Atavistic Structures (Atavism):

Similar DNA:



\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ may happen during \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **or** during

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. It is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ change in the DNA sequence.

 Charles Darwin wrote:

 Darwin’s Big Ideas: 1.

 2.

 What is “Tree Thinking”?



***What Darwin Never Knew***: Video and Worksheet

*http://www.bing.com/videos/search?q=what+darwin+never+knew+pbs&view=detail&mid=FC09AEE1C4F111951454FC09AEE1C4F111951454&FORM=VIRE*

***Building a History from Artifacts:*** Observation and Inference Activity