

Name: \_\_\_\_\_ Period: \_\_\_\_\_

# 6.1: Principles of Evolution

Evolution is a Theory...What is a Scientific Theory:

Examples:

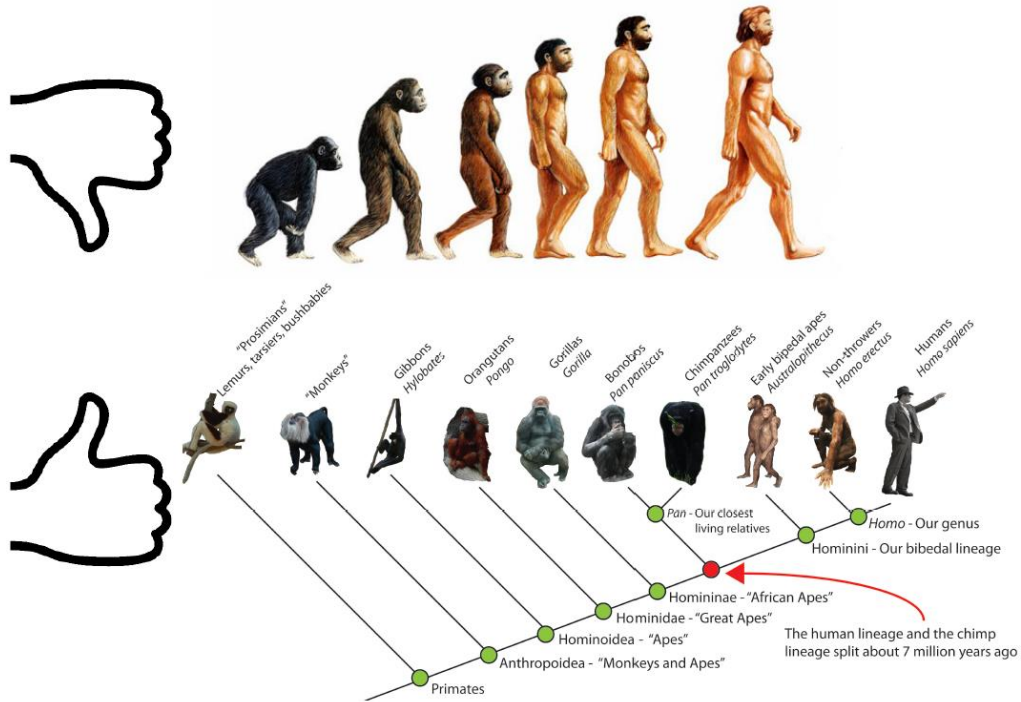
- Cell theory
- Germ theory of disease
- Gene inheritance theory
- Molecular theory
- Atomic theory
- Big Bang theory
- Theory of relativity ( $E=mc^2$ )
- Climate change theory
- Plate tectonics theory
- Moon origin theory

Definitions:

Evolution: "Change Over Time"

Biological Evolution: "Decent with Modification"

<u>Evolution is <b>NOT</b>:</u>	<u>Evolution is:</u>
A theory without factual evidence	A scientific theory based on _____
Something one believes in	Based on _____, not faith or belief
Used to describe the origins of life	Used to describe the origin of _____
Something that only happens in humans	Used describe change over time of _____, not just humans
Something that only happened in the past	Not in the past, _____
A process of a species becoming more and more complex	Process of a species changing to become _____
An accidental or random process	_____ and _____ process, environment and mutations cause adaptation patterns
Disproven or contradicted by any evidence	Supported by _____, no observations made thus far do not support it



## Charles Darwin's Four Principles of Biological Evolution

1. Heredity:
2. Variation:
3. Competition:
4. Survive to Reproduce