

~UNIT 6 EVOLUTION TEST STUDY GUIDE~

Evolution Terms

- **Homology**- Similarity due to a common ancestor
- **Bone Homology**- Using bones to determine ancestry
- **Homologous structures**- structures that have a similarity due to the common ancestor
- **Analogous Structures**- Don't derive from a common ancestor but have similar functions due to their environment.
- **Homologous genes**- similar functions, and they might be used to establish evolutionary relationships among organisms.
- **Evolution**- change in the heritable characteristics of a population over time.
- **Change**- and observable difference
- **Heritable**- inherited passed down to the offspring
- **Population**- organisms of the same species living in the same area
- **Common Ancestor**- the ancient organism that is related to two or more organisms.

Theory	Law
Evolution	Gravity
Relativity	Newton's three laws
String theory	Mendel's Law
Cell Theory	Biodiversity
Big bang theory	
Laws never change Theories can explain laws Hypotheses are predictions that can become theories	

Natural Selection

- **Natural Selection-** mechanism of evolution
 - Genetic variation within a population
 - Selection pressure from within or with out of population forces survival or death
 - Reproduction to pass down traits
- **The Evolutionary Arms Race**
 - Newts
 - Toxicity
 - Pressure snakes
 - Next generation are more toxic
- **Snakes**
 - Low immunity=faster
 - High immunity= slower
 - Pressure newts and predators
 - May become two different species