Unit 6- Evolution and Classification

You will work to understand how the genetic traits of organisms are expressed and passed on to future generations.

**State Standards**:

**Bio.3.4** Explain the theory of evolution by natural selection as a mechanism for how species change over time.

**Bio.3.5** Analyze how classification systems are developed upon speciation



**You will be able to:**

* Explain how natural selection drives evolution.
* Identify and analyze evidence supporting the theory of evolution by natural selection
* Construct and organize phylogenetic trees and cladograms

**Essential Question(s):**

Why do species change over time?

What are the forces driving this change?

 How do we organize and categorize living things?

**Unit Vocabulary**

1. Evolution

1. Natural Selection
2. Survival of the Fittest
3. Adaptation
4. Speciation
5. Geographic Isolation
6. Reproductive Isolation
7. Genetic Drift
8. Law of Superposition
9. Vestigial Structures

1. Homologous Structures

1. Analogous Structures
2. Phylogenetic Trees
3. Cladogram
4. Binomial Nomenclature