Unit 3- Genetics and Heredity

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



**You will be able to:**

* Explain the genetics underlying expressed traits
* Distinguish between different types of alleles and different types of dominance
* Describe the laws governing genetics and how they were discovered

**Essential Question(s):**

How are genetic traits in humans and other multi-cellular animals expressed and how are they passed on to future generations?

**Unit Vocabulary**

1. Gene

1. Allele
2. Genotype
3. Phenotype

1. Law of Dominance (genetics)
2. Dominant Allele

1. Recessive Allele

1. Codominant Alleles
2. Incomplete Dominance (genetics)
3. Law of Independent Assortment
4. Law of Segregation (genetics)

1. Heterozygous

1. Homozygous

1. Chromosome

1. Autosomes

1. Sex Chromosomes

1. Sex-linked traits

1. Punnett Square
2. Test Cross (genetics)
3. Polygenic Inheritance