**Science 10 Genetics Vocab**

**Natural Selection:**

**DNA:**

**Amino Acid:**

**Protein:**

**RNA:**

**Gametes:**

**Genotype:**

**Phenotype:**

**Gene:**

**Allele:**

**Dominant Allele:**

**Recessive Allele:**

**Homozygous:**

**Heterozygous:**

**Incomplete Dominance:**

**Monogenetic Trait:**

**Monohybrid Cross:**

**Dihybrid Cross:**

**Multiple Alleles:**

**Transfusions:**

**Homologous:**

**Carrier:**

**Science 10 Genetics Idea Checklist**

□ Understand and Explain **Darwin’s Theory of Evolution** through **Natural Selection**

□ Explain **Gregor Mendel’s Pea Plant Experiment** and how he used it to describe the base rules of genetics

□ State the **Law of Dominance**

□ State the **Law of Segregation**

□ State the **Law of Independent Assortment**

□ How to use **Punnett Squares** to predict probabilities of phenotypes and genotypes of offspring

□ How to make **Genotypic** and **Phenotypic Ratios**

□ How to use Punnett Squares to show **Generational Trait Skipping**

□ How **Incomplete Dominance** works and how it is different from **Codominance**

□ How **Multiple Alleles** allow for the various **Blood Types** and is responsible for the **Heredity** **of Blood Types**

□ How the **Blood Types** are classified by **Antigens** and how they interact with their **Antibodies** and **Agglutination**

□ How the differences between the X and Y chromosomes are responsible for **Sex-Linked** **Traits**

□ How to demonstrate the **Heredity of Sex-Linked Traits** such as **Colour-blindness**