**Basic Genetics Study Guide**

Genetics

Heredity

Alleles

Dominant

Recessive

Segregation

Independent Assortment

Phenotype

Genotype

Homozygous dominant

Homozygous recessive

Karyotype

Chromosomes

Chromatids

Chromatin

Gene

Gametes

Zygote

Fetus

Embryo

True breeding

Hybrid

Parental generation

First and second filial (F1+ F2) generation

Incomplete dominance

Co-dominance

Sex-linked

Polygenic

Multiple alleles

Goals

* Define the difference between dominant and recessive alleles
* Define and understand the principle of segregation
* Define and understand the principle of independent assortment
* Understand the process of meiosis
* Apply knowledge of Medallion Genetics to problem solving activities
* Interpret the information on a pedigree chart