**Genetics Study Guide**

I can explain who Gregor Mendel and Charles Darwin are and their contributions to genetics.

I can compare and contrast sexual and asexual reproduction.

I can list the advantages and disadvantages of sexual and asexual reproduction, and give examples of each type of reproduction.

I can define and explain the vocabulary words (acquired trait, asexual reproduction, chromosomes, DNA, dominant, genetics, genotype, heterozygous, homozygous, inherited trait, offspring, phenotype, Punnett square, recessive, sexual reproduction)

I can identify the differences between homozygous and heterozygous and dominant and recessive.

I can explain adaptation (trait) and natural selection (process) and give examples of each.

I can determine if traits are inherited or acquired.

I can create Punnett squares and accurately determine the offpring’s possible genotypes and phenotypes of various crossings.

I can determine the offspring’s ratios and percentages of parental crossings.