Genetics Review Sheet

**Mendel and His Laws:**

*What is the law of independent assortment?*

*What is the law of segregation?*

*What is the law of dominance?*

*Differentiate between genotype and phenotype.*

*What does a Punnett Square show? How many boxes would a monohybrid cross have?*

**Meiosis:**

*Differentiate between a diploid and a haploid cell? Are the final products (cells) of the meiosis diploid or haploid?*

*Why does meiosis lead to increased genetic variation? Why is it necessary?*

*How does the process of meiosis support Mendel’s laws?*

*What is the term for when a chromosome does not properly separate during meiosis? Give two examples of this.*

**Inheritance Rules:**

*Describe codominance and give an example.*

*Describe incomplete dominance and give an example.*

*Describe multiple allele traits and give an example.*

*Describe sex-linked traits and give an example.*

*What is a pedigree and why do we use them?*