

Name: _____ Class: _____ Date: _____

Non-Mendelian Genetics Notes

I. Incomplete Dominance

a. Definition: _____

b. Example: _____

- Red Flower Genotype: _____
- Pink Flower Genotype: _____
- White Flower Genotype: _____

c. Incomplete Dominance and Punnett Squares- Example

- In snapdragons, when crossing a red flower with a white flower, a pink flower can be produced. The alleles that control for this trait are incompletely dominant to each other. Cross a pink snapdragon with a red snapdragon to find the probable genotypes and phenotypes. Use "R" for the red allele and "r" for the white allele.

II. Codominance

a. Definition: _____

b. Example: _____

- Black Feathered Chicken Genotype: _____
- Black & White Feathered Chicken Genotype: _____
- White Feathered Chicken Genotype: _____

c. Codominance and Punnett Squares- Example

- In chickens, crossing a black-feathered chicken with a white-feathered chicken can result in a black and white speckled chicken. Cross a black-feathered chicken with a white-feathered chicken to find the probable genotypes and phenotypes. Label the allele for black feathers as "B" and the allele for white feathers as "W."
