Teacher Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Period \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Student ID \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Do Now

Dylan and Tami both have CF (cystic fibrosis). Tami is pregnant with their first child.

They think their child might have the disease when it is born. Should they be worried? Explain your reasoning on the lines provided.

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**Student Name: \_\_\_\_\_\_\_\_\_\_\_\_\_ Student ID: \_\_\_\_\_\_\_\_\_\_\_\_ Teacher Name: \_\_\_\_\_\_\_\_\_\_\_\_\_**

**Genetics Terminology Homework 1: Now let’s put all of our new terms to good use.**

Some parrots have gray feathers, and some have green feathers. Gray feathers are dominant and green feathers are recessive. Use this information for questions 1 – 5.

1. In parrots the allele for gray feathers is G. Is this allele dominant or recessive?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. In parrots the allele for green feathers is g. Is this allele dominant or recessive?

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1. Kelli has a gray parrot. Circle the correct possible genotypes for her parrot. GG Gg gg
2. Kelli’s friend Hector has a green parrot. Circle the correct possible genotypes for his parrot: GG Gg gg
3. A parrot has one dominant allele and one recessive allele, what is it called?

Homozygous dominant Heterozygous Homozygous recessive

Short fur is dominant (F) in cats. Long fur (f) is recessive in cats. Use this information to answer questions 6 – 10.

1. A kitten has a genotype of Ff, what is it’s phenotype? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. A male cat is homozygous dominant. What are his phenotype and his genotype?

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1. A kitten is homozygous recessive for the length of its fur. What is the correct pair of letters for its genotype?

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1. A cat has short fur. What are its *possible* genotypes (hint: there is more than one)?
2. A cat has two recessive alleles, what is it called?

Homozygous dominant Heterozygous Homozygous recessive