

Student's Interactive Review Worksheet

Name: _____ Date: _____

Let's Review!

Please answer the following questions as you work through the Let's Review! Section of the Power Point presentation titled Coat Color Genetics Part 1.

1. What are Paint Horses known for?

2. What are genes?

3. What makes up a chromosome?

4. What is the title given to specific parts along a chromosome where two alleles are found?

5. Why are there two alleles at each loci?

6. What is genotype?

7. What is phenotype?

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8. In simple dominance, what allele will be expressed?

9. If I have a heterozygous pair of alleles, what genotype do I have?

10. **ACTIVITY!** Your task is to create a new species. This species can look however you want it to look and be any type of creature. Once you create and name your species, pick 10 traits the individual exhibits and assign them dominant alleles. Then assign those alleles a mate, making the pair of alleles heterozygous or homozygous. You are using the theory of simple dominance to create your species' genotype for the 10 traits. (**EXTENSION!** If time permits you can create a mate for the species and predict what the offspring would look like. Remember, each mate would give one gene per trait during fertilization, either dominant or recessive.) Be creative and have fun!