



# Thomas Haney Secondary School

LG 14: Ph School Worksheet 23000 116 Ave, Maple Ridge, B.C. V2X 0T8

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Name: \_\_\_\_\_

1. When both alleles contribute to the phenotype this is a kind of dominance called \_\_\_\_\_.

2. What does it mean when an organism is heterozygous?

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3. Match each word to its correct definition.

\_\_\_\_ Phenotype

\_\_\_\_ Genotype

○ Genetic makeup- what is in the genes

○ Physical characteristics- what you see

4. What are Punnett squares used for?

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5. In a certain species of flowering plants there are two alleles for the gene that effects height. The tall allele, which is dominant, is represented with a "T" and the short allele (recessive) is represented with "t". Complete the following Punnett square. (in each box, write either Tall or Short)

	<b>T</b>	<b>T</b>
<b>T</b>		
<b>t</b>		

6. How many of the offspring in the Punnett Square above are heterozygous?

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7. Using the Alleles and Genotypes Tutorial, match the allele combinations of ladybug beetles with the phenotype that will result.

\_\_\_\_\_ ss

\_\_\_\_\_ S<sup>A</sup>s

\_\_\_\_\_ S<sup>A</sup>S<sup>A</sup>

Outlined yellow beetle

Spotted yellow beetle

Spotted yellow and outlined beetle