

Bio 111 Pre-Lab for Lab #06: Name _____

Genetics II TA & Sect. _____

To get started:

- Go to the On-Line Lab Manual (OLLM) website for Lab 05 and click the link marked "Extra Simple Dominance jsVGL Practice problems".
- Click on New Practice Problem the button to start a new problem in practice mode.
- Click the Genetic Model tab and you should see something like this (note that your be different).

Two Allele Simple Dominance This tells you how the trait is inherited in this problem.

- Forked is recessive
 - Short is dominant
- Your problem should say "Two allele simple dominance".

1) Write the description of the model in **your** problem in the space below (1 pt):

_____ is recessive

_____ is dominant

2) Define appropriate allele symbols for the Genetic Model you gave in (1) in the table below (3 pts):

<u>Allele</u>	<u>Contribution to phenotype</u>
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3) Cross individual organisms until you find a cross that shows that this model is correct – that is, a cross with results that are only consistent with the model you wrote in (1). Fill in the blanks below with the information from the cross as well as the genotypes you can infer based on the cross data and the model from (1). Use the symbols you defined in (2) when writing genotypes; if more than one genotype is possible given the cross and results, list all possibilities. (6 pts)

Male Parent: Phenotype _____ Genotype _____

Female Parent: Phenotype _____ Genotype _____

Offspring: (note that you will only need one line if there is only one kind of offspring)

Phenotype _____ Number _____ Genotype _____

Phenotype _____ Number _____ Genotype _____

