

Pre-Hardy-Weinberg

Student Data Page 3D



DATA TABLE

I. Record your starting gene combination (genotype) below.

My genotype _____

II. Consider that each person in the class is following the same instructions, determine the number of students in the class who have each genotype at the start of the lesson and record your answers below:

Initial Class Frequency
 $I^A I^A$ _____ $I^A i$ _____ ii _____

III. Record your answers as you complete each "generation" in *Table 1*.

Table 1 Genotype for Each Generation

	$I^A I^A$	$I^A i$	ii
First Generation			
Second Generation			
Third Generation			
Fourth Generation			
Fifth Generation			

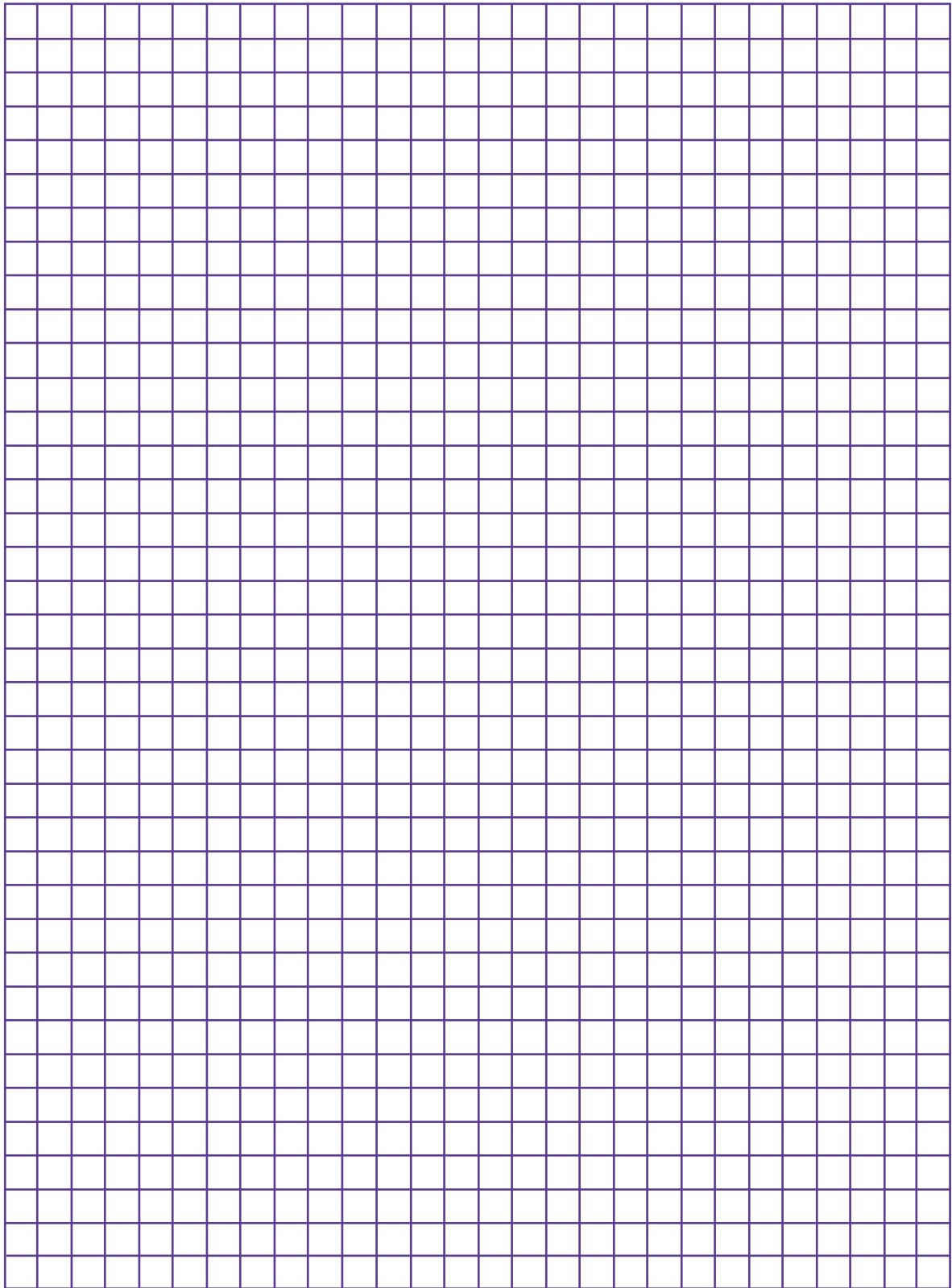


LESSON 3
ACTIVITY 3D

IV. Graph your results by making a bar graph. Be sure to include a title and axes labels.

Title _____

(Axis label)



(Axis label)

- V. Your teacher will help you collect data by asking students to raise their hands if they had type AA for the fifth generation. Take a count and record the number. Repeat for type AO and type OO.



Final Class Frequency: AA _____ AO _____ OO _____

Processing Out:

1. How did the distribution of the A alleles change each generation?

Handwriting practice area for question 1, consisting of a light blue rectangular box with a dashed red border and six horizontal blue lines.

2. How might the results have been different if there had been more type OO people to begin the simulation?

Handwriting practice area for question 2, consisting of a light orange rectangular box with a dashed red border and six horizontal blue lines.

3. How might this simulation apply to other human traits?

Handwriting practice area for question 3, consisting of a light yellow rectangular box with a dashed red border and six horizontal blue lines.

