Honors Biology Class Activity Population Genetics

> d) e)

With your group, complete the following activities:

1.	List the 5 conditions which are necessary to maintain "genetic equilibrium" (i.e. necessary for Natural Selection to NOT occur) according to the Hardy-Weinberg
	Principle:
a)	
b)	
c)	

2. Use the Hardy-Weinberg Equation to answer the following:

If a population is in genetic equilibrium and the value of p is 0.3, what proportion of the population has each genotype?

- 3. On a separate sheet, create 3 separate graphs(simple) which depict each of the following:
- a) Directional Selection
- b) Stabilizing Selection
- c) Disruptive Selection