

## Genetics App Assignment

### Gene Screen App

1. Read the Genes and Inheritance and Population Genetics sections under Learn About Genetics
2. Pick 2 random parents to mate in the Genetic Traits section
  - a. Write out the Punnett Square
  - b. List the % for genotype and phenotype
  - c. Click on the Offspring button to randomly select one of the 4 offspring and write down the combination that is chosen
  - d. Repeat the steps for a second random set of parents**
3. Pick 2 random parents to mate in the Genetic Diseases section
  - a. Write out the Punnett Square
  - b. List the % for genotype and phenotype
  - c. Click on the Offspring button to randomly select one of the 4 offspring and write down the combination that is chosen
  - d. Repeat the steps for a second random set of parents**

### Snurfle Meiosis 2

1. Work through the second lesson: Independent Assortment
2. Then, Click on Random Fertilization
  - a. Write down the answers to all the questions (they are not numbered so you will have to create a list of answers – just A, B, C, or D)
  - b. Write out the Dihybrid Punnett square at the end with the phenotypes and numbers**
3. Work through the first lesson: Crossing over