**Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Study Guide- Genetics I Quiz**

**Plant Parts**

Label a plant **Word Bank**

|  |
| --- |
| style, filament, sepalstigma, ovary, pistilanther, petal, stamen |

* Entire male part\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Entire female part\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Part that turns into a fruit \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Two ways plants usually pollinate
1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Types of Organisms**

\*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ mean the same thing

* Both alleles are the same (TT or tt)

\*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_mean the same thing

* The alleles are different (Tt)

\*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_- different forms of the same gene

\*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_- exact genes that make up an organism

\*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_- how an organism looks because of genes

\*Bee go to flowers to gather \_\_\_\_\_\_\_\_\_\_\_\_\_.

\*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ flowers have both male and female parts.

**Fill in the offspring squares.**

 **Y y** Ratio of yellow to green \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
| 1 | 2 |
| **3** | **4** |

**Yy= yellow**

**Y y should be along the side of the Punnett Square.**

**#1** What is the genotype \_\_\_\_\_\_\_\_\_\_\_\_\_\_ phenotype \_\_\_\_\_\_\_\_\_\_\_

# 2 What is the genotype \_\_\_\_\_\_\_\_\_\_\_\_\_\_ phenotype \_\_\_\_\_\_\_\_\_\_\_

 # 4 What is the genotype \_\_\_\_\_\_\_\_\_\_\_\_\_\_ phenotype \_\_\_\_\_\_\_\_\_\_\_\_

\*How many genes are in this Punnett Square? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\*How many alleles are in this Punnett Square? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\*Who is the “Father of Genetics?” \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the study of passing traits from parent to offspring.