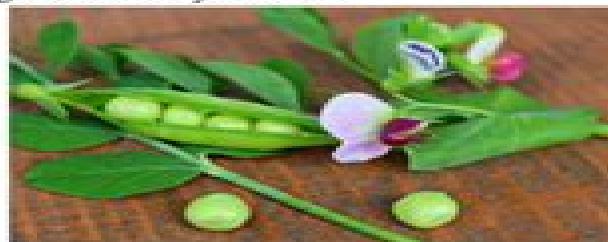


## I. Mendel's Experiments and Genetic Vocabulary

### A. History of Genetics:

1. Gregor Mendel was a Franciscan monk who was the first person to determine the rules of inheritance
  - i. He is often described as a monk, but he was university trained and spent a majority of time studying science
2. In the mid 1800s, most people believed in blending
  - i. Traits from mother and father mixed
  - ii. Offspring came out in the middle
3. Mendel used garden peas as a model organism to study inheritance
4. Garden peas served as a good model organism to study because:
  - i. Grow easily
  - ii. Short life spans (one year)
  - iii. Numerous characteristics (purple/white, tall/short)
  - iv. Make many offspring
  - v. He could control the crosses
5. In total he counted over 20,000 PLANTS!
6. His studies of these peas revolutionized the field of genetics (eventually)
  - i. Mendel's work went unnoticed during his lifetime because no one could understand the math he used to support his findings.
7. Mendel followed the inheritance of 7 characteristics of pea plants, and he began by studying one trait at a time
  - i. This is referred to as a monohybrid cross (mono for one trait)
8. His studies led to the creation of a new set of vocabulary terms to describe the results he saw, these terms form the basis of genetic vocabulary today.



### B. Genetic Vocabulary:

1. The physical appearance of an organism is called its phenotype. The phenotype is determined by the genotype and the environment.
2. The genetic makeup of an organism is called its genotype. The genotype is determined by the alleles inherited from the parents.
3. A trait is a specific characteristic of an organism. Traits can be controlled by a single gene or multiple genes.
4. A monohybrid cross is a cross between two organisms that are heterozygous for a single trait. The offspring of a monohybrid cross will have a 3:1 phenotypic ratio.
5. A dihybrid cross is a cross between two organisms that are heterozygous for two traits. The offspring of a dihybrid cross will have a 16:3:3:1 phenotypic ratio.
6. A test cross is a cross between an organism with a dominant phenotype and an organism with a recessive phenotype. The test cross is used to determine the genotype of the dominant parent.
7. A Punnett square is a diagram that is used to predict the outcome of a genetic cross. The Punnett square shows the possible genotypes and phenotypes of the offspring.
8. A pedigree chart is a diagram that is used to show the inheritance of a trait over several generations. The pedigree chart uses symbols to represent individuals and lines to represent the relationships between them.



# Meiosis And Mendel Vocabulary Practice Chapter 6

**HSP**



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