

# Test: Genetic Inheritance

---

## Part I: Matching

Directions: Match each term in Column A with the correct definition in Column B. Write the correct letter on the line.

### Column A

1. Gene
2. Allele
3. Trait
4. Genotype
5. Phenotype
6. Dominant Allele
7. Recessive Allele
8. Inheritance

### Column B

- A. Different forms of the same gene
  - B. The genetic makeup of an organism
  - C. A segment of DNA that codes for a characteristic
  - D. Observable characteristics of an organism
  - E. A characteristic passed from parents to offspring
  - F. An allele that is expressed when present
  - G. An allele that is masked by a dominant allele
  - H. The passing of traits from parents to offspring
- 

## Part II: Multiple Choice

Directions: Circle the best answer for each question.

1. What is the basic unit of heredity?
  - A. Cell
  - B. Gene
  - C. Tissue
  - D. Organ
2. A trait that is hidden when a dominant allele is present is called:
  - A. Dominant
  - B. Inherited
  - C. Recessive
  - D. Genetic
3. Which scientist is known as the 'Father of Genetics'?
  - A. Charles Darwin
  - B. Louis Pasteur
  - C. Gregor Mendel
  - D. Isaac Newton

4. What is an allele?
    - A. A type of chromosome
    - B. A different form of a gene
    - C. A type of cell
    - D. A protein
  5. The observable traits of an organism are called its:
    - A. Genotype
    - B. Alleles
    - C. Phenotype
    - D. Chromosomes
  6. If an organism has two identical alleles for a trait, it is:
    - A. Heterozygous
    - B. Dominant
    - C. Recessive
    - D. Homozygous
  7. Which of the following is an example of a phenotype?
    - A. Bb
    - B. Brown eyes
    - C. Gene
    - D. Chromosome
  8. What determines an organism's inherited traits?
    - A. Alleles received from parents
    - B. Weather conditions
    - C. Exercise
    - D. Age
  9. A dominant allele is represented by:
    - A. A lowercase letter
    - B. A number
    - C. An uppercase letter
    - D. A symbol
  10. Which statement about inheritance is true?
    - A. Traits are passed from offspring to parents.
    - B. Traits are passed from parents to offspring.
    - C. Traits are created by the environment only.
    - D. Traits cannot be inherited.
-