

Name: \_\_\_\_\_  
Date: \_\_\_\_\_

# Molecular Genetics Assignment



## Objectives:

By the end of this assignment, students will be able to identify and explain different types of alleles. Differentiate between homozygous and heterozygous genotypes. Understand the relationship between genotype and phenotype. Explore their own genetic traits with different activities.

## Part 1: Identifying Genetic Terms

Match each term with the correct situation or example. Write the correct term (Allele, Dominant Allele, Recessive Allele, Homozygous, Heterozygous, Genotype, Phenotype) in the blank next to each statement.

1. \_\_\_\_\_ Two different versions of a gene are present in an individual, like (Bb) for brown eyes.
2. \_\_\_\_\_ The physical expression of a trait, such as having dimples or not.
3. \_\_\_\_\_ A version of a gene that is masked unless inherited from both parents (e.g., blue eyes, attached earlobes).
4. \_\_\_\_\_ The actual genetic makeup of an individual, like (TT) or (Tt).
5. \_\_\_\_\_ A gene that always shows its effect if present, even if only one copy is inherited.
6. \_\_\_\_\_ Both alleles for a gene are the same, such as (AA) or (aa).
7. \_\_\_\_\_ A specific variation of a gene that determines a trait, like the gene for hair color having "brown" or "blonde" versions.

## Part 2: Understanding Alleles and Traits

A. Suppose a gene for flower color has two alleles:

- R (Red, dominant)
- r (White, recessive)

1. List all possible genotypes for flower color.

phenotype for each genotype.



# Molecular Genetics Activity 2 Answer Key

**Lei Shi**



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