

Chapter 11: Introduction to Genetics

State Standards

Central Concept: Genes allow for the storage and transmission of genetic information. There are a set of instructions encoded in the nucleotide sequence of each organism. Genes code for the specific sequences of amino acids that comprise the proteins characteristic to that organism.

- 3.1 Describe the basic structure (double helix, sugar-phosphate backbone, linked by complementary nucleotide pairs) of DNA, and describe its function in genetic inheritance.
- 3.2 Explain how mutations in the DNA sequence of a gene may or may not result in phenotypic change in an organism. Explain how mutations in gametes may result in phenotypic changes in offspring.
- 3.4 Distinguish among observed inheritance patterns caused by several types of genetic traits (dominant, recessive, co-dominant, sex-linked, polygenic, incomplete dominance, multiple alleles).
- 3.5 Describe how Mendel's laws of segregation and independent assortment can be observed through patterns of inheritance (e.g., dihybrid crosses).
- 3.6 Use a Punnett Square to determine the probabilities for genotype and phenotype combinations in monohybrid crosses.

Key Terms

Genetics	Diploid	Genotype
Trait	Haploid	Phenotype
Heredity	Miosis	P, F1, F2
Gene	Homozygous	Monohybrid Cross
Locus	Heterozygous	Test Cross
Allele	Mendel's Law of Dominance	Homologous Chromosomes
Pure-bred	Dominant Allele	Probability
Hybrid	Recessive Allele	Punnett-Square Method
Self-Fertilize	Homozygous Dominant	Law of Segregation
Dominant	Homozygous Recessive	Dihybrid Crosses
Recessive	Gene Expression	Independent Assortment

You should be able to:

1. Describe why Mendel chose to study garden peas
2. Summarize Mendel's experimental design, including what traits he was observing
3. Summarize the results of Mendel's experiments
4. Analyze genotypic and phenotypic data obtained by Mendel
5. Summarize Mendel's Theory of Heredity
6. Explain the Laws of Heredity: Law of Dominance, Law of Segregation and Law of Independent Assortment (and how they relate to meiosis/sexual reproduction)
7. Solve Monohybrid and Dihybrid word problems using Punnett squares
8. Describe the role of probability in genetics

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Answer

Yan Bai



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