

Chapter 11: Introduction to Genetics

State Standards:

Central Concepts: Genes allow for the storage and transmission of genetic information. They are a set of instructions provided 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 genes 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

Trait

Heredity

Gene

Locus

Allele

Pure-bred

Hybrid

Self-Fertilize

Dominant

Recessive

Diploid

Haploid

Miosis

Homozygous

Heterozygous

Mendel's Law of Dominance

Dominant Allele

Recessive Allele

Homozygous Dominant

Homozygous Recessive

Gene Expression

Genotype

Phenotype

P, F₁, F₂

Monohybrid Cross

Test Cross

Homologous Chromosomes

Probability

Punnett-Square Method

Law of Segregation

D₁-hybrid Crosses

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

Chapter 11 Introduction To Genetics Solving Heredity Problems

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Chapter 11 Introduction To Genetics Solving Heredity Problems:

Enjoying the Song of Phrase: An Psychological Symphony within **Chapter 11 Introduction To Genetics Solving Heredity Problems**

In a world taken by monitors and the ceaseless chatter of instant connection, the melodic beauty and psychological symphony created by the published word usually disappear into the backdrop, eclipsed by the persistent sound and interruptions that permeate our lives. Nevertheless, situated within the pages of **Chapter 11 Introduction To Genetics Solving Heredity Problems** a wonderful fictional value full of raw feelings, lies an immersive symphony waiting to be embraced. Crafted by an outstanding composer of language, that interesting masterpiece conducts viewers on a mental trip, well unraveling the concealed songs and profound affect resonating within each cautiously constructed phrase. Within the depths of the emotional examination, we can discover the book is central harmonies, analyze its enthralling writing type, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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