

6 Transmission of genetic information - Genetic Crosses

A **monohybrid Cross** involves the inheritance of a single characteristic determined by one gene

- In genetics a **gene** is a specific length of DNA which occupies a position on a chromosome – the position of the gene on a chromosome is called the **locus**.
- The gene determines the **characteristic** of an organism by coding for a particular polypeptide (remember genetic code – three bases = 1 amino acid)
- Different forms of the same gene are called **alleles** - the upper case (capital) letter represents the dominant allele and lower case letter represents the recessive allele.
- **Homozygous** – the cells in an organism have identical alleles for a gene e.g. HH or hh
- **Heterozygous** – the cells in an organism have different alleles for a gene e.g. Hh
- The **phenotype** is the observable feature of an organism any may be changed depending on which allele is expressed
- The **genotype** is the description of the alleles present e.g. HH, Hh or hh

What are homologous chromosomes?

Copy Fig 1 Page 113

What do the following terms mean?

Mutation _____

Co-dominance _____

Multiple Alleles _____

Modification _____

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Table of Contents Genetics Usa Test Prep Answers

1. Understanding the eBook Genetics Usa Test Prep Answers
 - The Rise of Digital Reading Genetics Usa Test Prep Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Genetics Usa Test Prep Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Genetics Usa Test Prep Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Genetics Usa Test Prep Answers
 - Personalized Recommendations
 - Genetics Usa Test Prep Answers User Reviews and Ratings
 - Genetics Usa Test Prep Answers and Bestseller Lists
5. Accessing Genetics Usa Test Prep Answers Free and Paid eBooks
 - Genetics Usa Test Prep Answers Public Domain eBooks
 - Genetics Usa Test Prep Answers eBook Subscription Services
 - Genetics Usa Test Prep Answers Budget-Friendly Options

6. Navigating Genetics Usa Test Prep Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Genetics Usa Test Prep Answers Compatibility with Devices
 - Genetics Usa Test Prep Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Genetics Usa Test Prep Answers
 - Highlighting and Note-Taking Genetics Usa Test Prep Answers
 - Interactive Elements Genetics Usa Test Prep Answers
8. Staying Engaged with Genetics Usa Test Prep Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Genetics Usa Test Prep Answers
9. Balancing eBooks and Physical Books Genetics Usa Test Prep Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Genetics Usa Test Prep Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Genetics Usa Test Prep Answers
 - Setting Reading Goals Genetics Usa Test Prep Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Genetics Usa Test Prep Answers
 - Fact-Checking eBook Content of Genetics Usa Test Prep Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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