

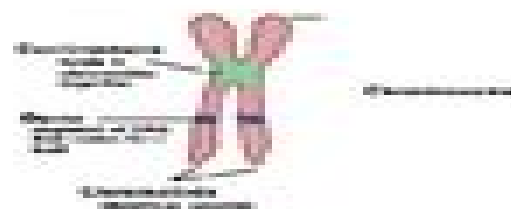
MRS. HILL'S BIOLOGY STUDY GUIDE 2ND SEMESTER

Here is some general information on what we covered for the second semester. GOOD LUCK!!!

CHROMOSOMES AND CELL REPRODUCTION (CHAPTER 10)

A. CHROMOSOME STRUCTURE

1. During cell division, the DNA (**CHROMATIN**) in a eukaryotic cell's nucleus is coiled into very tight-compact structures called **CHROMOSOMES**.
2. When preparing for cell division, chromosomes form copies of themselves, each half of the chromosome is called a **CHROMATID** or **SISTER CHROMATIDS**. Chromatids form as the DNA makes copies of itself before cell division.
 - a. The constricted area of each chromatid is called a **CENTROMERE**. The centromere holds the two chromatids together until they separate during cell division.



B. CHANGE IN CHROMOSOME STRUCTURE

1. Changes in an organism's chromosome structure are called **mutations**.
2. Breakage of a chromosome can lead to four types of mutations:
 - a. **Deletion mutation**- a piece of chromosome breaks off completely. After cell division, the new cell will lack a certain set of genes.
 - b. **Duplication mutation**- a chromosome fragment attaches to its homologous chromosome, which will then carry two copies of a certain set of genes.
 - c. **Inversion mutation**-the chromosome piece reattaches to the original chromosome but in a reverse orientation. If the piece reattaches to a non-homologous chromosome, a **translocation mutation** results.

C. CHROMOSOME NUMBERS

1. Each human body cell contains **46 CHROMOSOMES (2n) OR TWO COMPLETE SETS**.
2. Any cell that contains **TWO COMPLETE SETS** of chromosomes is called a **DIPLOID CELL**. A diploid cell is commonly abbreviated as **2n** or **46**.
3. A cell with only **ONE COMPLETE SET** of chromosomes is called a **HAPLOID CELL**. A haploid cell is abbreviated as **1n** or **n=23**.

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Table of Contents General Biology Second Semester Study Guide

1. Understanding the eBook General Biology Second Semester Study Guide
 - The Rise of Digital Reading General Biology Second Semester Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying General Biology Second Semester Study Guide
 - 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 General Biology Second Semester Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from General Biology Second Semester Study Guide
 - Personalized Recommendations
 - General Biology Second Semester Study Guide User Reviews and Ratings
 - General Biology Second Semester Study Guide and Bestseller Lists
5. Accessing General Biology Second Semester Study Guide Free and Paid eBooks
 - General Biology Second Semester Study Guide Public Domain eBooks
 - General Biology Second Semester Study Guide eBook Subscription Services
 - General Biology Second Semester Study Guide Budget-Friendly Options

6. Navigating General Biology Second Semester Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - General Biology Second Semester Study Guide Compatibility with Devices
 - General Biology Second Semester Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of General Biology Second Semester Study Guide
 - Highlighting and Note-Taking General Biology Second Semester Study Guide
 - Interactive Elements General Biology Second Semester Study Guide
8. Staying Engaged with General Biology Second Semester Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers General Biology Second Semester Study Guide
9. Balancing eBooks and Physical Books General Biology Second Semester Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection General Biology Second Semester Study Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine General Biology Second Semester Study Guide
 - Setting Reading Goals General Biology Second Semester Study Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of General Biology Second Semester Study Guide
 - Fact-Checking eBook Content of General Biology Second Semester Study Guide
 - 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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