

MRS. HILL'S BIOLOGY STUDY GUIDE
2ND SEMESTER

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

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 coiled/coiled ends of each chromatid is called a **CENTROMERE**. The centromere holds the two chromatids together until the separation during cell division.



B. CHANGES 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**, (23 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 $2n=46$.
3. A cell with **only ONE COMPLETE SET** of chromosomes is called a **HAPLOID CELL**. A haploid cell is abbreviated as $1n=23$.

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**Thirumalaisamy P.
Velavancorresponding**

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Cases on Distance Delivery and Learning Outcomes: Emerging Trends and Programs Gearhart, Deb,2009-10-31 This book provides practitioners in the field of distance education a case book that is a valuable reference of best practices in the field
Provided by publisher The Shattered Put Back Together Vanessa L. Jones,2009-05 **Study Guide to Accompany**

West's Federal Taxation--comprehensive Volume, 1992 Annual Edition David Mitchell Maloney,1991

Biology/science Materials Carolina Biological Supply Company,1991 *Accounting : the Basis for Business Decisions* Wai P. Lam,Robert F. Meigs,Walter B. Meigs,1995 *Resources in Education* ,1980-04 *Student's Guide to the Two-year College* Richard C. Richardson,Clyde E. Blocker,1968 *Southwestern Journal of Education* ,1890 *Minneapolis Public Schools* Minneapolis Public Schools. Board of Education,1889 *American Physical Education Review* ,1925 Includes abstracts of magazine articles and Book reviews *Wests Federal Tax Volume Iii 1999* Willis,Eugene Willis,William Hoffman,David Maloney,Bill Raabe,1998-05 **YOUR GUIDE TO UNDERSTANDING** Written specifically for the student who needs help understanding the difficult concepts in the Individual Income Tax and the Corporations Partnerships Estates Trusts Taxation courses The Study Guide contains chapter reviews of key concepts and self evaluation tests **A**

Proceedings of the XXVI International Horticultural Congress C. G. Davidson,2004 **Sg West Fed Tax for Comp**

2002 Willis,2001-06 Designed to help students understand the often confusing and complex concepts in taxation this guide makes essential information easily accessible It includes chapter reviews of key concepts and key terms all presented in outline form plus self evaluation tests with solutions page referenced to the text **Wft Comprehensive Volume** Eugene Willis,William Hoffman,1999-04 This Study Guide is designed to assist students in comprehending the concepts and principles presented in the text Problems and brief objective questions are included with solutions in the back of the Study Guide *Accounting* Robert F. Meigs,Walter B. Meigs,Wai P. Lam,1991 *Financial Accounting* David F. Fetyko,1980

A Comparison of Business Communication Student's Writing Achievement when Constructivist Or Behaviorist

Methods of Instruction are Used Sandra Jean Horner Braathen,2000 *Macroeconomics* Roger A. Arnold,2004 Offering a unique blend of solid theoretical content and student accessibility this text 1 covers all the basics of macroeconomics 2 gives student a clear idea of how economists think about the world 3 stresses the key concepts in economics and 4 is extremely rich in intriguing applications that convey the prevalence of economics in everyday life By applying economics to phenomenon that students are familiar with and interested in this book demonstrates like no other text how economic analysis can be applied to virtually anything of interest thus helping students develop true economic intuition Additional student oriented features include a unique active learning format an emphasis on developing economic analysis skills and an outstanding visual program for exhibits and graphs *Complete Guide to American Colleges and Universities* ,1966

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