

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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**Thirumalaisamy P.
Velavancorresponding**



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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 West's 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
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