

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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