

# MRS. HILL'S BIOLOGY STUDY GUIDE

## 2<sup>ND</sup> SEMESTER

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

### CHROMOSOMES AND CELL REPRODUCTION (CHAPTER 13)

#### 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 2n or n=23.

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**Alfred E. Zietlow**



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*AI-Mediated Language Education in the Metaverse Era* Yu-Ju Lan,Grace Yue Qi,Dorothy Chun,2025-10-13 This book provides open discussions and dialogues around the latest research and development on applying AI and ubiquitous technologies into various language learning contexts Living in the Metaverse era arguably a turning point in the evolution of the Internet it is vital for researchers and practitioners to rethink and reconsider human and AI relationships in transforming the way we teach learn and live in everyday life Reinders et al 2022 amongst Computer Assisted Language Learning CALL researchers have emphasised the need to conduct more research on language learning in the classroom and beyond that makes real connections with what language learners do for their learning today More importantly language educators must find ways to support language learning in this new era What is urgently needed is a consolidation and synthesis of theoretical foundations visions and the latest research findings and practices on the integration of AI and ubiquitous technologies and

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