

Chapter 10: Meiosis and Sexual Life Cycles

Heredity - the transmission of traits from one generation to the next.

Variation - exists in populations that reproduce sexually, offspring are not identical to their parents.

Genetics - is the scientific study of heredity and hereditary variation.

- **Asexual Reproduction**

- A single individual is the sole parent of an offspring.

- Ex: **binary fission** of bacteria

- Ex: **regeneration** of a sea star arm

- Some multi-celled organisms can reproduce this way through cloning, an offspring begins as a mass of cells called a bud (hydra) → **budding**

- Offspring are genetically identical to parents, "clones"

- Variation can occur through mutations.

- This type of reproduction occurs through the process of mitosis.

I. Inheritance of Genes

Genes – are the units of heredity and are made up of segments of DNA. It is a section of DNA on a chromosome.

Genes are passed to the next generation via reproductive cells (sperm and eggs) called gametes.

- **Sexual Reproduction**

- Two parents give rise to offspring that have unique combinations of genes inherited from the two parents. Genetically unique offspring.

- Need to find a mate, takes time.

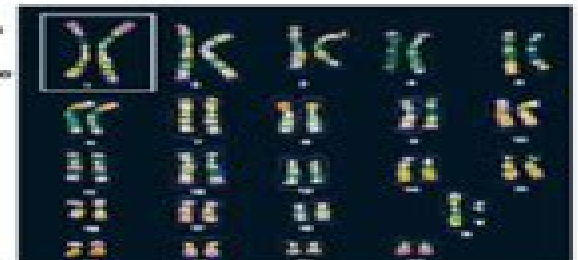
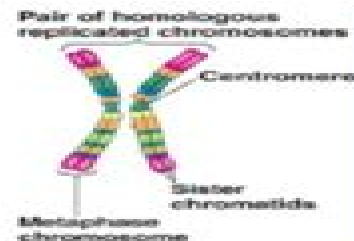
- **Sets of chromosomes in humans**

- Human somatic cells have 23 pairs chromosomes or 46 total chromosomes.

- A **karyotype** is an ordered display of the pairs of chromosomes from a cell.

- The two chromosomes in each pair are called **homologous chromosomes** or **homologs**.

- one from mom, one from dad
- chromosomes that carry genes that control the same trait (eye color, etc.)
- pairs 1-22 are autosomes
- pair 23 are sex chromosomes (male has XY or female has XX)



This is a sex cell (n) with 23 chromosomes

Meiosis And Sexual Life Cycles Guide Answers

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Meiosis And Sexual Life Cycles Guide Answers:

Meiosis And Sexual Life Cycles Guide Answers Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the ability of words has been evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **Meiosis And Sexual Life Cycles Guide Answers**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall impact on readers.

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