

Chapter 10: Cell Growth and Division

State Standards

- 2.6 Describe the cell cycle and the process of mitosis. Explain the role of mitosis in the formation of new cells, and its importance in maintaining chromosome number during cell division.

Key Terms

Asexual Reproduction

Sexual Reproduction

Chromosome

Chromatin

Cell Cycle

Interphase

Mitosis

Cytokinesis

Prophase

Centromere

Chromatid

Centriole

Metaphase

Anaphase

Telophase

Cycle

Growth Factor

Apoptosis

Cancer

Tumor

Embryo

Differentiation

Totipotent

Pluripotent

Stem Cell

Multipotent

You should be able to:

1. Explain the problems that growth causes for cells.
2. Compare asexual and sexual reproduction.
3. Describe the role of chromosomes in cell division.
4. Name the main events of the cell cycle.
5. Describe what happens during the four phases of mitosis.
6. Describe the process of cytokinesis.
7. Describe how the cell cycle is regulated.
8. Explain how cancer cells are different from other cells.
9. Describe the process of differentiation.
10. Define stem cells and explain their importance.
11. Identify the possible benefits and issues relating to stem cell research.

You should know the difference between:

- Surface area to volume ratio for different sized cells
- Asexual and sexual reproduction
- Prokaryotic cell division and eukaryotic cell division
- Prokaryotic chromosome and eukaryotic chromosome
- Chromosome, chromatid, centromere, and chromatin
- Interphase (G₁, G₂, and S), Mitosis, and Cytokinesis
- Prophase, Metaphase, Anaphase, and Telophase
- Internal and external regulators of the cell cycle
- Cancer cells and regular cells
- Malignant tumor and benign tumor
- Embryonic stem cells and adult stem cells
- Totipotent, Pluripotent, and Multipotent
- Sources for quick energy and long-term energy

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