

Name _____

The Marvelous World of Mitosis

Multiple Choice Questions

1. What is the primary purpose of mitosis in the cell cycle?
 - a) Energy production
 - b) DNA replication
 - c) Growth, tissue repair, and cell replacement
 - d) Waste elimination

2. Which stage of mitosis involves the separation of sister chromatids?
 - a) Prophase
 - b) Metaphase
 - c) Anaphase
 - d) Telophase

3. During which phase of the cell cycle does the DNA condense into visible chromosomes?
 - a) Interphase
 - b) Prophase
 - c) Metaphase
 - d) Telophase

4. What is the purpose of cytokinesis in the cell cycle?
 - a) Separating the chromatids
 - b) Dividing the cell into two daughter cells
 - c) Aligning the chromosomes
 - d) Duplicating the DNA

5. How does mitosis contribute to asexual reproduction in some organisms?
 - a) By creating genetically unique offspring
 - b) By producing offspring with a mix of genetic material
 - c) By generating offspring with the same genetic makeup as the parent
 - d) By preventing reproduction entirely

