

# 5 2 mitosis and cytokinesis study answer key

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### 5.2 Mitosis and Cytokinesis Study Answer Key

#### Paragraph 1:

1. **Question:** What is mitosis? **Answer:** Mitosis is the process of nuclear division that results in two identical daughter cells.
2. **Question:** What are the stages of mitosis? **Answer:** Prophase, metaphase, anaphase, telophase, and cytokinesis.

#### Paragraph 2:

3. **Question:** What happens during prophase? **Answer:** Chromosomes condense and become visible, and the nuclear envelope breaks down.
4. **Question:** What happens during metaphase? **Answer:** Chromosomes align at the center of the cell, forming a metaphase plate.

#### Paragraph 3:

5. **Question:** What happens during anaphase? **Answer:** Sister chromatids separate and move to opposite poles of the cell.

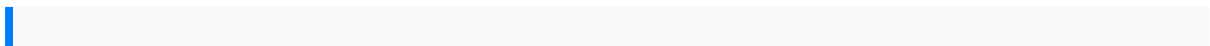
6. **Question:** What happens during telophase? **Answer:** Chromosomes become less condensed and a new nuclear envelope forms around each set of chromosomes.

#### Paragraph 4:

7. **Question:** What is cytokinesis? **Answer:** Cytokinesis is the process of dividing the cytoplasm and forming two daughter cells.
8. **Question:** What are the two types of cytokinesis? **Answer:** Cleavage furrow formation (animal cells) and cell plate formation (plant cells).

#### Paragraph 5:

9. **Question:** What is the significance of mitosis? **Answer:** Mitosis allows for the growth, development, and repair of tissues in multicellular organisms.
10. **Question:** What are the consequences of errors in mitosis? **Answer:** Errors in mitosis can lead to genetic disorders, birth defects, and cancer.



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