

SECTION 1: MEIOSIS

In your textbook, read about meiosis I and meiosis II.

Label the diagrams below. Use these choices:

anaphase I
prophase II

anaphase II
prophase II

interphase
telophase II

metaphase II
telophase II

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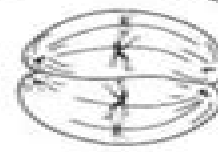
1. prophase II

2. prophase II

3. Telophase III

4. interpretation

5. anaphase I



6. telophase I

T. anaphase II

8. metaphase II

9. metaphase II

10. Using the pictures & phases above, describe what is happening in each phase:

- Interphase: G1 – cell grows; S-DNA is duplicated; G2 – cells grows & makes sure all the organelles are duplicated.
- Prophase I: nuclear membrane breaks down; nucleolus disappears; centrioles begin to migrate to opposite sides of the cell; spindle fibers begin to form; homologous chromosomes form; crossing over occurs
- Metaphase I: homologous chromosomes are lined up down the middle of the cell
- Anaphase I: homologous chromosomes are pulled apart & sister chromatids are pulled to opposite sides of the cell, cell has gone from diploid to haploid
- Telophase I: nuclear membrane reforms, nucleolus reappears; spindle fibers disappear; cell divides in 2
- Prophase II: nuclear membrane breaks down; nucleolus disappears; centrioles begin to migrate to opposite sides of both cells; spindle fibers begin to form; sister chromatids form
- Metaphase II: sister chromatids are lined up down the middle of both cells.
- Anaphase II: sister chromatids are pulled apart & chromosomes are pulled to opposite sides of both cells
- Telophase II: nuclear membrane reforms in the 4 cells, nucleolus reappears; spindle fibers disappear; cell divides into 4 genetically different cells

Mendelian Genetics And Meiosis Study Guide Answers

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