

SECTION 1: MEIOSIS

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

Label the diagrams below. Use these choices:

anaphase I
prophase I

anaphase II
prophase II

interphase
telophase I

metaphase I
telophase II

metaphase II

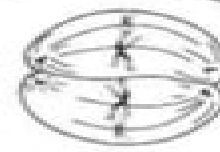
1. prophase I

2. prophase II

3. telophase II

4. interphase

5. anaphase I



6. telophase I

7. anaphase II

8. metaphase I

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

Mendel Meiosis Reinforcement And Study Guide Answers

Sandra Pennington



Mendel Meiosis Reinforcement And Study Guide Answers:

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Introduction to Genetics Sandra Pennington, 2009-07-17 The 11th Hour Series of revision guides are designed for quick reference The organization of these books actively involves students in the learning process and reinforces concepts At the end of each chapter there is a test including multiple choice questions true false questions and short answer questions and every answer involves an explanation Each book contains icons in the text indicating additional support on a dedicated web page Students having difficulties with their courses will find this an excellent way to raise their grades Clinical correlations or everyday applications include examples from the real world to help students understand key concepts more readily Dedicated web page there 24 hours a day will give extra help tips warnings of trouble spots extra visuals and more A quick check on what background students will need to apply helps equip them to conquer a topic The most important information is highlighted and explained showing the big picture and eliminating the guesswork After every topic and every chapter lots of opportunity for drill is provided in every format multiple choice true false short answer essay An easy trouble spot identifier demonstrates which areas need to be reinforced and where to find information on them Practice midterms and finals prep them for the real thing **Meiosis Science Learning Guide** NewPath Learning, 2014-03-01 The Meiosis Creating Sex Cells Student Learning Guide includes self directed readings easy to follow illustrated explanations guiding questions inquiry based activities a lab investigation key vocabulary review and assessment review questions along with a post test It covers the following standards aligned concepts Sexual Reproduction Meiosis Overview DNA Replication Meiosis I Meiosis II Crossing over Comparing Mitosis Identifying Stages of Meiosis and Mitosis the Cell Cycle Aligned to Next Generation Science Standards NGSS and other state standards *11th Hour* Sandra Pennington, 1999-11-05 The 11th Hour Series of revision guides are designed for quick reference The organization of these books actively involves students in the learning process and reinforces concepts At the end of each chapter there is a test including multiple choice questions true false questions and short answer questions and every answer involves an explanation Each book contains icons in the text indicating additional support on a dedicated web page Students having difficulties with their courses will find this an excellent way to raise their grades Clinical correlations or everyday applications include examples from the real world to help students understand key concepts more readily Dedicated web page there 24 hours a day will give extra help tips warnings of trouble spots extra visuals and more A quick check on what background students will need to apply helps equip them to

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