

Mitosis & Meiosis Study Guide

Stages of Mitosis

Label each event with the phase (PHASE) of the cell cycle (mitosis) in which it occurs. Write out the whole name. Each phase may be used more than once.

1. _____ The chromosomes line up across the middle of the cell
2. _____ Chromosomes become visible
3. _____ The centromeres split and sister chromatids separate into individual chromosomes
4. _____ Nuclear envelope reforms
5. _____ The spindle fibers connect to each chromosome
6. _____ The chromosomes begin to unwind back into chromatin
7. _____ DNA replication occurs
8. _____ The cell is just living and doing its job

Stages of Meiosis

Label each event with the phase (PHASE) of meiosis in which it occurs. Write out the whole name. EXCLUDING THE 1st 2 Each phase may be used more than once.

1. _____ Spindle fibers pull homologous chromosome pairs to opposite ends of the cell
2. _____ 4 haploid (N) daughter cells form
3. _____ Cells undergo a round of DNA replication
4. _____ Sister chromatids separate from each other at the centromeres
5. _____ 2 haploid (N) daughter cells are formed
6. _____ Homologous chromosome pairs (bivalents) line up in the center of the cell
7. _____ Individual chromatids move to each end of the cell
8. _____ Chromatin condenses into visible chromosomes
9. _____ Homologous chromosome pairs (tetrads) are pulled apart
10. _____ Crossing-over occurs

Comparing Mitosis & Meiosis

Fill in the blank with the correct answer.

11. What type of cells use mitosis as a method of cell division? _____
12. What type of cells use meiosis as a method of cell division? _____
13. How many daughter cells results from mitosis? _____
14. How many daughter cells results from meiosis? _____

Biology Mitosis Study Guide Answers

Arshad Iqbal



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