

Meiosis

Answer Key

Vocabulary: anaphase, chromosome, crossover, cytokinesis, diploid, DNA, dominant, gamete, genotype, germ cell, haploid, homologous chromosomes, interphase, meiosis, metaphase, mitosis, ovum, phenotype, prophase, recessive, sister chromatid, sperm cell, telophase, zygote

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

[Note: The purpose of this question is to activate prior knowledge and get students thinking. Students are not expected to know the answer to the Prior Knowledge Question.]

1. During **mitosis**, a single cell divides to produce two daughter cells. What must happen in the original cell so that each of the daughter cells has a complete set of **chromosomes**?

The DNA (or chromosomes) must be duplicated before cell division.

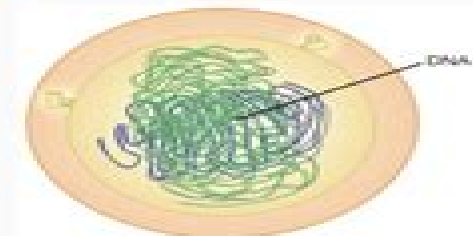
2. During sexual reproduction, two sex cells fuse to create a fertilized cell with a complete set of chromosomes. What must be true about the number of chromosomes in each sex cell?

The sex cells will have half the number of chromosomes as the fertilized cell.

Gizmo Warm-up

Meiosis is a type of cell division that results in four daughter cells with half as many chromosomes as the parent cell. These daughter cells mature into **gametes**, or sex cells. In the *Meiosis* Gizmo, you will learn the steps in meiosis and experiment to produce customized sex cells and offspring.

On the STEPS tab, click **Male**. You are looking at a **germ cell**, or a cell that will undergo meiosis to become gametes.



1. Read the description of **interphase** at the bottom of the Gizmo. What happens to the cell at the beginning of interphase? *The cell grows and synthesizes mRNA and proteins.*

2. Click on the **DNA** in the nucleus of the cell. Describe what happens.

The DNA is copied (more DNA appears) and the cell grows some more.

3. Why is it necessary for the cell to grow and duplicate its DNA before the start of meiosis?

Answers will vary. [The cell grows so that it has enough materials to undergo replication and duplicates its DNA so the daughter cells will receive the correct amount.]

Neo Sci Meiosis Simulation Answer Key

Lingjun Ying



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