



Student Exploration: Meiosis

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.)

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 must replicate

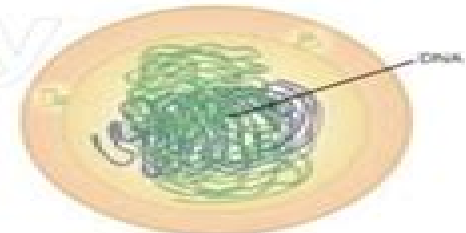
2. During sexual reproduction, two sex cells fuse to create a fertilized cell with a complete set of chromosomes. What must be true about the number of chromosomes in each sex cell?

There must be 2 one x and one y or both X.

Gizmo Warm-up

Meiosis is a type of cell division that results in four sex 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 in size and doubles its organelles.

2. Click on the **DNA** in the nucleus of the cell. Describe what happens. The DNA duplicates and allows the cell to continue to grow.

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

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E Durkheim



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