

Modeling Meiosis

Introductory

Meiosis is the formation of egg and sperm cells. In sexually reproducing organisms, body cells are **diploid**, meaning they contain two sets of chromosomes: one set from each parent. During meiosis, diploid cells undergo DNA replication, followed by two rounds of cell division, producing four **haploid** sex cells.



Materials (per group)

- 6 pipe cleaners of one color (2-3inch each)
- 6 pipe cleaners of another color (2-3inch each)
- 1 piece of yarn (~6 feet) ends tied together to form a circle (or chalk markers can be used on black table tops instead to draw cell)

Objective

Students will use pipe cleaners to demonstrate the stages of meiosis.

Background

1. Form a circle with a piece of yarn to model the cell membrane.
2. Place 2 of each color pipe cleaner into the cell in two vertical lines (see below). Each pair of chromosomes represents a homologous pair so they should be **two** different colors.



3. Right before cell division, all of the DNA is copied. Add the sister chromatids of each chromosome to your cell (see below).



Meiosis I

4. Prophase I- Twist the sister chromatids together to form individual chromosomes (connected by their centromeres). **Draw** the chromosomes on the diagram on the back of this paper in the **egg cell**.
5. Homologous chromosomes that contain the same genes move toward each other. Homologous chromosome **exchange** segments of DNA (genes). This process is known as crossing over.
6. Next, the pairs of homologous chromosomes line up in the middle of the cell. (**Metaphase I**) Model this process in your cell.
7. Now, the homologous chromosomes separate so that one of each pair of chromosomes moves to opposite side of the cell. (**Anaphase I**) Model this process in your cell.
8. The cell then divides. Arrange the yarn to show the cell being divided in half. (Shape like the number 8)

Draw the chromosomes in the diagram on the back page (two cells in the second row).

9. How many **cells** have been formed?
10. How many **chromosomes** are in each sex cell?

Meiosis Lab Activity 3b Neo Sci Answers

Scott C. Dulebohn



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Mitosis & meiosis LAB 3 Cathrine M. Monson, 2004*

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