

Meiosis Flip Book



Introduction

In this activity, students will create a flip book that outlines the stages of meiosis.



Grade Level: 7-10

Time Needed: One 45-60 minute class period

Learning Objective

After completing this lesson, students will be able to:

1. Describe the phases of meiosis

Materials

- Meiosis Flip Book Student Activity Sheet and templates
- Scissors
- Colored pencils
- Stapler

Instructional Process



1. Prior to this activity, outline the process of meiosis via lecture or class discussion.
2. Pass out the *Meiosis Flip Student Activity Sheet and Templates*.
3. Rotate around the room as students are working on following the directions and building the flip book correctly. Provide assistance to students as necessary.

Next Generation Science Standards (NGSS)

As a result of activities for grades 7-10, all students will learn content in these areas:

Topics

- **MS-LS2:** Growth, Development & Reproduction of Organisms

Performance Expectation

- **MS-LS3-2:** Develop and use a model to describe why asexual reproduction results in offspring with identical genetic information and sexual reproduction results in offspring with genetic variation.

Dimension

Practices:

- Developing and Using Models

Disciplinary Core Ideas:

- **LS3.A:** Inheritance of Traits

Cross-Cutting Concepts:

- Patterns

Meiosis Flip Book Student Activity Sheet



Introduction

During this activity, you will utilize your knowledge of meiosis to design and create a flip book outlining the stages of meiosis.

Materials

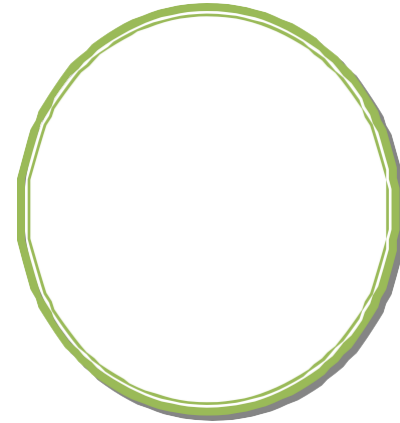
- Meiosis Flip Book templates
- Scissors
- Colored pencils
- Stapler

Procedure

1. Obtain the meiosis flip book templates from your teacher.
2. In each square, illustrate a different stage of meiosis, making sure that all appropriate organelles are included.
3. Once you have completed all the diagrams, carefully cut out each “page” and organize them from first to last.
4. Using two staples, staple the pages together on the left side.
5. Flip through your book to view meiosis.

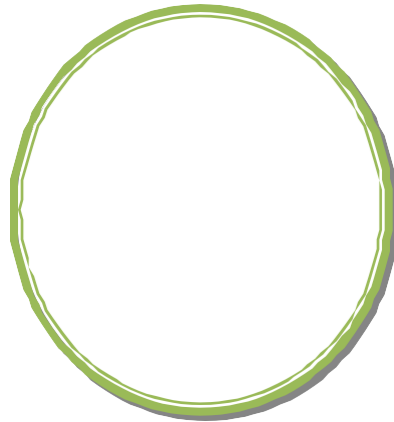
Meiosis Flipbook

Meiosis I



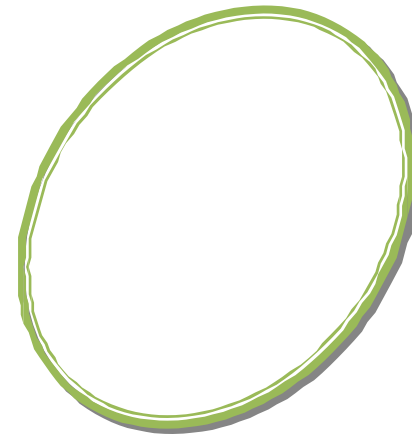
Prophase I

Meiosis I



Metaphase I

Meiosis I



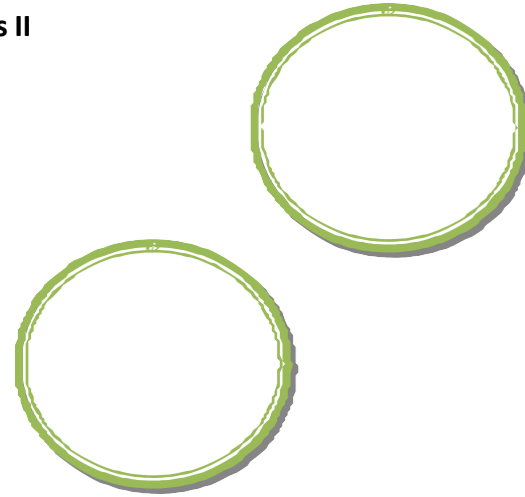
Anaphase I

Meiosis I

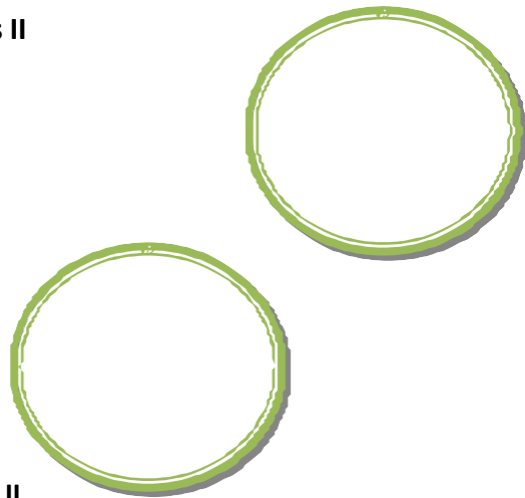


Telophase I

Meiosis II

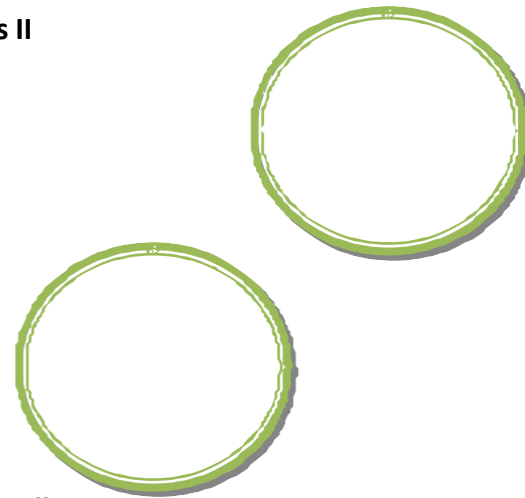


Meiosis II



Prophase II

Meiosis II



Metaphase II

Meiosis II



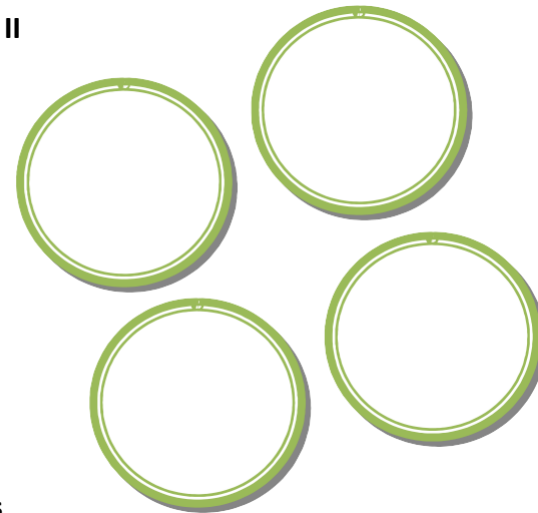
Anaphase II

Meiosis II



Telophase II

Meiosis II



Gametes