

## **Mitosis/ Meiosis Unit Teacher Copy**

**Essential Questions:** What is the big picture... How does mitosis and meiosis affect me? Why is it important to know mitosis and meiosis? What are the steps of mitosis? What are the steps of Meiosis? What is the difference between the two? Where does mitosis and meiosis happen?

**Essential Knowledge:** The different types of reproduction. Why we need our cells to divide in order to grow and repair dead or damaged cells. Where and how mitosis happens. Where and how meiosis happens.

**What Students Should Know By End of Unit:** Students will know what sexual and asexual reproduction is and examples of each. That it is important that our cells divide because we need to grow and repair ourselves. Cell division is also important to produce offspring whether it is by asexual or sexual reproduction. Students will know the cell cycle is a checkpoint stage before a cell enters mitosis or meiosis and it has 3 stages. Students will know about the end result of mitosis, where it takes place, and how it works. Students will know about the end result of meiosis, where it happens, and how it works.

**Formal Assessments:** There will be a test over mitosis. The test is in the form of making cards with an illustration on the front and a description of what is happening in that stage on the back. We will create a set of cards during class as notes to study from. This is a great test because it targets visual and learning styles. There will be a take home quiz over meiosis. The quiz is multiple choice, fill in the blank, true false, short answer, diagram, and one essay question.

**Informal Assessments:** I will be walking around the room during activities to answer questions and to check student work.

**MLR:**

E3-Cells, E4- Heredity and Reproduction

**Accommodations/ Modifications:** In this class, there are students with IEP and 504 plans. Accommodations include extended testing time, oral response to essay and short answer questions on tests/quizzes, and the option of taking test in Educational Resource room for a quieter place. As I teacher I am aware of these accommodations and when creating tests I provide more multiple choice, true false, fill in the blank with a word bank, and diagrams with less essay questions. If additional accommodations are needed then I will talk with the student to arrange for his/ her needs.

**Time Needed:** Ideally, this unit would take about three weeks. But, because of time constraints I will have only 2 weeks.

**Schedule:**

**Day 1**