



Course: Biology

We hope that you, your families and loved ones are well! During the COVID-19 pandemic school closure, we will be doing our best to provide you engaging activities that will enrich your understanding of Biology. During term 4, you will be exploring topics in Genetics and Evolution.

Goal for this week

Learning Objectives:

Students will be able to ...

1. understand differences between mitosis and meiosis.
2. model how meiosis produces gametes with half the chromosomal content of normal somatic cells.

[2016 MA STE Standard: HS-LS3-4(MA)]

Literacy Objectives:

1. Reading: to understand a concept and construct meaning
2. Writing: to take notes
3. Writing: to generate a response to what one has read, viewed, or heard
4. Reasoning: to identify a pattern, explain a pattern, and/or make a prediction based on a pattern

(<https://www.bpsma.org/schools/brockton-high-school/about-us/mission-literacy-charts>)

Lesson:

Biology Buffet: Meiosis

- See the page(s) below for a complete description of what to do and the resources you will need.
- ***Your science teacher will be in contact to clarify expectations (like when and how to submit your work for credit) for your class.***

WHY THIS MATTERS

Have you ever wondered why you look like you mom and dad? Of course, it's because you get roughly half of your genes from each parent. Segregating chromosomes correctly during meiosis is critically important to prevent [genetic defects](#). Learn more about how [genetic counselors](#) help people understand risks and types of genetic disease. Maybe it's the career for you!

Additional Support

Email:

- Please reach out to your science teacher with specific questions about the lesson.

Office Hours:

- Here is a list of the [science teachers' office hours](#). Please email your teacher to set up meeting times.

Other questions:

- Science Department Head
Dr. David Mangus
davidmangus@bpsma.org



Biology Buffet

Topic: Meiosis

Assignments to do:

Click on the link to view the resource ...

1. Review [Meiosis PowerPoint](#), take notes and list any questions.
2. Complete [Meiosis Reading with Comprehension Questions](#)
3. **Choose 3 assignments from the buffet below to complete:**
You should select 1 appetizer, 1 main course, and 1 dessert

Appetizer
Meiosis active reading
Watch Amoeba Sisters video and complete handout
Watch fuse school meiosis video and write a summary

Main Course
Meiosis sorting handout
Meiosis phases coloring
Cells alive animation with handout

Dessert
Haploid and diploid practice handout
Haploid and diploid calculation handout
Meiosis Short Answers

Extension Videos:

- [Mitosis and Meiosis rap battle](#)
- [Mitosis and Meiosis - Amoeba sisters](#)
- [Mr. W Meiosis rap](#)
- [Laws of Independent Assortment and Segregation](#)

Recommended Pacing

Monday: Memorial Day Holiday, **Tuesday:** Pre-work assignments, **Wednesday:** Complete an appetizer, **Thursday:** Complete a main course, **Friday:** Complete a dessert