

Grade 9 and 10

Distance Learning Module 5: Week of: April 27 - May 1

Meiosis

Honors Biology - Modified from [Unit # 4 - Inheritance](#)

Targeted Goals from Stage 1: Desired Results

Content Knowledge:

Cellular division occurs in phases, with a specific set of functions taking place at each step.

DNA contains the genetic information that controls functions and traits.

Errors in DNA are called mutations and can be helpful, harmful or neutral.

Vocabulary: meiosis, mutation, autosomal, haploid, diploid, gamete, somatic cell, variation, nondisjunction, crossing-over,

Skills: Make and defend a claim based on evidence about how, when, where and why inheritable genetic variations occur.

Expectation:

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday: Introduction to Meiosis <ul style="list-style-type: none">- Google Meet Video Discussion using Meiosis PowerPoint- Watch Amoeba Sisters video and answer EdPuzzle embedded questions	Meiosis Slideshow Edpuzzle: Amoeba Sisters Meiosis (to be assigned by teachers)	Participation in Google Meet Discussion Complete Amoeba Sisters Edpuzzle video and questions
Tuesday: Phases of Meiosis <ul style="list-style-type: none">- Complete the Meiosis webquest by visiting the various websites	Meiosis Webquest	Submit the complete webquest through Google Classroom

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Wednesday: Phases of Meiosis <ul style="list-style-type: none"> - View the Meiosis Slideshow and complete the corresponding packet 	Meiosis - Dragonfly Book Meiosis Packet	Take a picture/share Meiosis Packet and submit through Google Classroom
Thursday: Compare and Contrast Meiosis and Mitosis: <ul style="list-style-type: none"> - Review Meiosis/Mitosis slides on slideshow - Complete Venn Diagram - Google Meet Class Discussion 	Meiosis Slideshow Blank Venn Diagram	Google Meet Discussion Participation and/or share Venn Diagram on Google Classroom
Friday: Nondisjunction and Karyotypes <ul style="list-style-type: none"> - View the end of the Meiosis Slideshow and take notes - Complete the Karyotype Practice Packet 	Meiosis Slideshow Karyotyping Activity Exit Slip- Quizizz	Submit Karyotyping Activity through Google Classroom Submit Exit Ticket through Google Classroom or quizizz

Week criteria for success (attach student checklists or rubrics):

Assignment	Criteria for Success
Introduction to Meiosis	Checked into Google Meet Embedded Amoeba Sisters video questions are answered correctly
Meiosis Webquest	Webquest is complete and accurate
Meiosis Packet	Meiosis packet is completed

Assignment	Criteria for Success
Comparing Mitosis and Meiosis	Checked into Google Meet and/or Venn Diagram is complete
Karyotype	Karyotype Activity is submitted and responses are correct Exit Slip is completed and each question is answered correctly

Supportive resources and tutorials for the week (plans for re-teaching):

Basic Genetics at [Learn Genetics.utah.edu](http://LearnGenetics.utah.edu)

PBS - How Cells Divide: Mitosis vs. Meiosis

Amoeba Sisters Chromosomes and Karyotypes