

Grade 8

Distance Learning Module1: Week of: 3/30 - 4/3

Science: Genetics/Evolution - Modified from Evolution Unit

Targeted Goals from Stage 1: To initiate the Genetics/Evolution Unit

Content Knowledge: This activity will allow students to understand how DNA plays a role in heredity.

Vocabulary: DNA, Genes, Alleles, Dominant/Recessive, Homozygous/Heterozygous, Genotype/Phenotype

Skills: Analyze experimental data, synthesize information, and communicate learning.

Expectation: Students will be able to correctly fill out and interpret a Punnett Square, identifying the genotype and the phenotype ratios of the possible offspring.

Week 1: Answer keys are provided to students so that they can self-assess their learning. Students will have a check-in at the end of each week to determine their level of understanding. An answer key will not be provided for this teacher-assessed assignment.

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday: Please watch the video and answer the questions.	DNA: Stated Clearly: <u>What is DNA and How Does it Work?</u> Gregor Mendel: <u>Greatest Genetics Discoveries: Gregor Mendel.mp4</u> (3:13)	Questions to DNA stated clearly video: <u>What is DNA</u> DNA Answer sheet: <u>DNA: Answer Key</u>

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Tuesday: Please watch the two videos and review the notes.	Gregor Mendel: 8LS 1.1 Mendel's Pea Plants (5 min) Genetics Vocab: Genetics Vocab Notes Mendel PowerPoint: Genetics Unit	Worksheet #2: Worksheet #2.pdf Worksheet #2 Answer Key: Answer Key.pdf Worksheet #3 Punnett Square Practice.pdf Worksheet #3 Answer Key: Answer Key Works sheet #2.pdf
Wednesday: Please watch the three videos and complete the worksheet.	Genotype/Phenotype: (1:42) YouTube video Heterozygous/Homozygous: (1:41) YouTube video How to complete a Punnett Square: (2:52) YouTube video	Worksheet 4: Worksheet #4 Punnett Squares Worksheet #4 Answer Key: Answer Key Worksheet #4.pdf
Thursday: Please watch the two videos and complete the worksheet.	How to complete a Punnett Square: (4:20) Learn Biology: How to Draw a Punnett Square Continue Working on Punnett Squares: (3:06) YouTube video	Punnett Square Handout #5 : (Answer key attached)
Friday: Please complete the check in.	Edulastic check in: Are you getting it??? This will be opened up Friday morning.	Edulastic Check-in:

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

Students will be able to complete worksheets and complete Edulastic check in with 80% or greater.

Supportive resources and tutorials for the week (plans for re-teaching): See links in the table above.

Mendel PowerPoint: [Genetics Unit](#)

Genetics Vocab: Genetics Vocab [Genetics Vocab](#) Notes

Genetics Webpage: "Tour of Basic Genetics" and "More About Traits" [found at learn.genetics.utah.edu](#)