

Grade 9-10

Distance Learning Module 10: Week of: June 8<sup>th</sup> –June 12<sup>th</sup>

## Biology Level 2- Modified from [Unit # 4 - Inheritance](#)

### Targeted Goals from Stage 1: Desired Results

**Content Knowledge:** The likelihood that an offspring will inherit specific traits, with few exceptions, are governed by the laws of probability. Multicellular organisms pass traits to their offspring through the process of reduction division, the laws of probability can be used to predict the inheritance patterns among related individuals.

**Vocabulary:** Gene, allele, homozygous, heterozygous, dominant, recessive, codominance, incomplete dominance, Punnett Square, phenotype, genotype.

**Skills:** Apply understanding of genetics and probability

### Expectation:

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday: Mendel's work and introduction vocabulary	Slideshow (1-25)	Completed notesheet
Tuesday: Set-up and review punnett square	Slideshow (26-30) YouTube video: Monohybrids and the Punnett Square Guinea Pigs Amoeba YouTube video: Punnett Square Basics   Mendelian Genetic Crosses (2 minute)	Practice problems
Wednesday: Students will complete a worksheet of practice punnett square problems focused on the expression of dominant and recessive	Genetics Questions Worksheet	Completed Worksheet with snapshots uploaded showing their punnett square work.

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
genes/alleles.		
Thursday: Instructions or video on incomplete and codominance (non-Mendelian)	Edpuzzle on incomplete and codominance or video instruction	Edpuzzle on incomplete and codominance
Friday: Students will complete a worksheet of practice punnett square problems focused on the expression of genes with codominance and incomplete dominance.	Genetics Questions Worksheet #2	Completed Worksheet #2 with snapshots uploaded showing their punnett square work.

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

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

Khan academy has a lot of resources too more practice problems