AP BIOLOGY

Genetics

Essential Question

How is our understanding of evolution influenced by our knowledge of genetics?

Why is it important that not all inherited characteristics get expressed in the next generation?

How would Mendel’s laws have been affected if he had studied a different type of plant?

How does the diversity of a species affect inheritance?

Understandings

*Students will understand that:*

Knowledge:

*Students will know:*

Skills:

*Students will be able to:*

Curriculum Standards - 2019 College Board Course & Exam Description

Explain the inheritance of genes and traits as described by Mendel’s laws.

Explain deviations from Mendel’s model of the inheritance of traits.

Explain how the same genotype can result in multiple phenotypes under different environmental conditions.

Explain how chromosomal inheritance generates genetic variation in sexual reproduction.

Mission Integration

(*Note: could be combined with performance task/design thinking culminating assessment)*

Performance Task or Design Thinking Culminating Assessment

Other Evidence (formative assessments, summative assessments)

*what homework and other out of class experiences are needed to equip students?*

Topic Overview

*Order of topics presented (Calendar)*

Learning Plan

*Learning Activities - What experiential or inductive learning will help students to explore the big ideas and questions to achieve desired understandings? for their expected performances?*

Resources