AP BIOLOGY

Cellular Respiration

Essential Questions

How is energy captured and then used by a living system?

How do organisms use energy or conserve energy to respond to environmental stimuli?

Understandings

*Students will understand that:*

Knowledge:

*Students will know:*

Skills:

*Students will be able to:*

Curriculum Standards - 2019 College Board Course & Exam Description

Describe the structural features of a cell that allow organisms to capture, store, and use energy.

Describe the role of energy in living organisms.

Describe the processes that allow organisms to use energy stored in biological macromolecules.

Explain how cells obtain energy from biological macromolecules in order to power cellular functions.

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