

DATE: January 11, 2024

TO: Andrew Pesci, Franklin High School
Kristen Quesada, Churchill High School
Pete Mazzoni, Stevenson High School

FROM: Rebecca Caldwell, 7-12 Math and Science Curriculum Coordinator

SUBJECT: Resource Recommendation for HS Biology

This memo recommends the adoption of the *College Board's Pre-AP Biology Curriculum Resource*. The details below provide more information about the adoption process and information to support the recommendation.

Committee Members

Kevin Reina, FHS
Aaron Moran, FHS
Julie Tafelski, CHS
Aimee Price, CHS/SHS
Karen Dillon, SHS

Recommended Materials for Adoption

Pre AP-Biology Curriculum Resource from College Board.

Cost proposal is attached.

Summary of Course(s)

Biology and Advanced Biology

Overview

College Board's Pre-AP Biology full-year course framework is a digital and print, NGSS aligned, grade-level resource for all Biology students.

Evaluation Process

Teachers utilized EdReports and support from Wayne County RESA Science Consultants to determine possible resources for evaluation. A committee of teachers represented by each school integrated units/ activities from several resources to evaluate their implementation into the course and effectiveness with students. Using experiences from the classroom and the information gathered from the resource rubric the committee then made a recommendation to use the Pre AP Biology resources from the College Board.

Shared Vision

Science students in Livonia Public Schools will be critical thinking problem solvers. Through the use of Next Generation Science Standards, students will be able to think, act, and connect like concepts scientists and engineers. Students will work in a collaborative, equitable, student-led classroom. Students will understand that science is a revisable, ongoing process. Through their ability to reason and evaluate fact-based evidence, LPS students will increase their scientific literacy to make informed decisions.

Evaluation Criteria

We evaluated the resources using a rubric with the following criteria:

- Alignment to Next Generation Science Standards
- Coherence and Rigor for ALL students
- Balance of skill development, conceptual understanding, and inquiry
- Reflect the needs and diversity of LPS students
- Ability to be used in a regular or advanced course
- Discourse, engagement, critical thinking, and collaboration
- Assessment (formative and summative)
- Digital platform/ Student paper journal

Textbooks Considered

Open SciEd

College Board Pre AP

Inspire Science - HMH

Biozone

Evaluation Rubric Outcome

The results of the rubric that was created by the committee prior to Pre AP Biology from the College Board to be the resource that would be mostly closely aligned with achieving the goals set forth in our shared vision. This resource was chosen unanimously because of its ability to engage students, promote discussion and collaboration, and present critical thinking opportunities. The College Board is a respected organization in secondary testing and for curriculum resources.

Professional Development Needs

All HS Science teachers will receive PD from the College Board on February 27, 2024. Teachers using Pre AP will complete a series of online modules to become familiar with the digital program. There is also a virtual training in the fall on assessments.

For additional information on the adoption recommendation, contact Rebecca Caldwell at x42144.

CC

Theresa O'Brien

Kevin Etue