



## OUR VISION

We believe authentic, challenging, active, and relevant learning experiences optimize opportunities for all students to productively participate and lead in an increasingly diverse and dynamic society.



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# Learning Goals

- 1 Understand the key principles of high-quality PBL
- 2 Consider why student-centered approaches, like PBL, are essential at this time in our society
- 3 Identify the big shifts needed for school systems to support approaches like high-quality PBL



# What is Project-Based Learning?

Project-based learning (PBL) is an approach to education in which students explore real-world problems through individual and group projects.



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# LER Theory of Action

- 1 By co-creating high quality PBL curricula, projects and teacher supports
- 2 By researching schools and teachers using these approaches
- 3 By creating proof points of PBL practice

We will strengthen the PBL evidence-base while providing educators with resources and support for PBL.



# Key Principles for Project-Based Learning

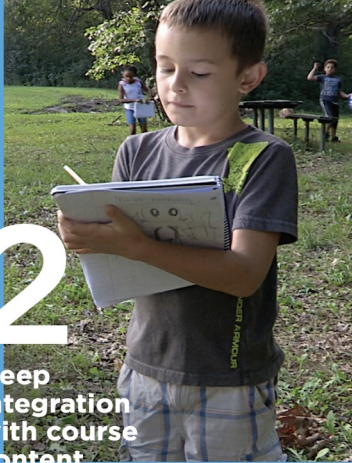
1

Purposeful  
and authentic  
experiences



2

Deep  
integration  
with course  
content



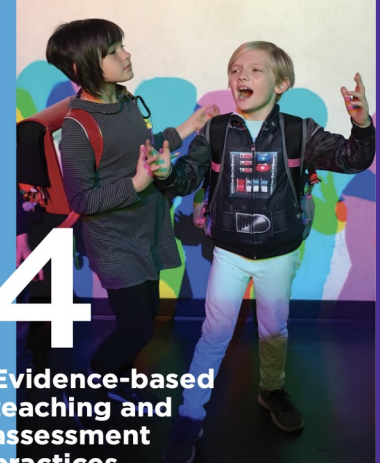
3

Meaningful  
and supportive  
relationships



4

Evidence-based  
teaching and  
assessment  
practices





# AP ENVIRONMENTAL SCIENCE

How can we rethink  
our use of the world's  
resources?

## THE 7 PROJECTS

### Course Introduction

What does sustainability mean?



Course  
Introduction

### Ecological Footprint

How can my family reduce our  
ecological footprint?



Ecological  
Footprint

### My Community Ecology

How can our community develop more  
sustainably?



My Community  
Ecology

### Food Systems

How can we meet the needs of our  
growing human population while  
sustaining ecosystems and the quality of



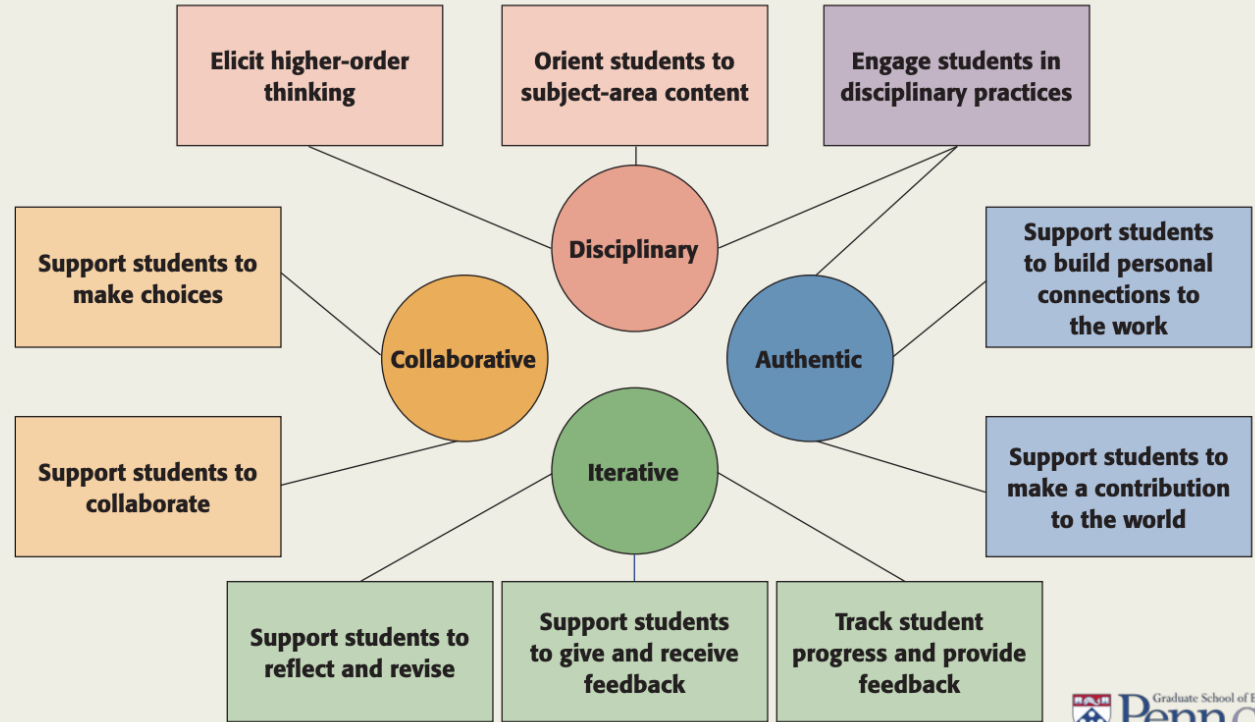
Food Systems



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**FIGURE 1.**

## **The Core Practices of Project-Based Teaching**



# Key Findings #1

- Students project-based learning classrooms from high poverty, large urban to rural school districts across the United States significantly outperform students in typical classrooms.





# Key Findings #2

- Students across racial, ethnic and socio-economic backgrounds benefit from challenging and authentic project-based learning.



# LER Project-Based Learning Resources

## RESEARCH BRIEFS



Read summaries of peer-reviewed studies on the impact of PBL.



## WHITE PAPERS



Deepen your understanding of PBL and what it takes to offer it to more students.



## VIDEOS



Watch high-quality PBL.



## CURRICULA



Access free PBL courses that may be used, replicated and adapted.



<https://www.lucasedresearch.org/docs/pbltoolkit>