

## Physics and Everyday Thinking

Indicates a research-demonstrated benefit

## **Overview**

Developer(s)

🚳 Website

A guided-inquiry conceptual physics course designed to help students develop a deep conceptual understanding of big ideas in physics.

understanding of big ideas in physics.	
🏠 Type of Method	Full curriculum
<b>:</b> Level	Designed for: Teacher Prep Course
	Designed for: Studio
Coverage	Few topics with great depth
Topics	Mechanics, Electricity / Magnetism, Waves / Optics
Instructor Effort	Medium
Resource Needs	Computers for students, Advanced lab equipment, Cost for students, Tables for group work
<b>%</b> Skills	Designed for: Conceptual understanding , Metacognition , Using multiple representations  Can be adapted for: Making real-world connections
Research Validation	Based on research into: theories of how students learn , student ideas about specific topics .  Demonstrated to improve: conceptual understanding , beliefs and attitudes .  Studied using: research at multiple institutions .
Compatible Methods	PhET, JiTT, Physlets, SCALE-UP, OSP, LA Program, CPU
Similar Methods	PBI, PSET, LEPS

Fred Goldberg, Valerie Otero and Steve Robinson

http://petproject.sdsu.edu/





