



Physical Science and Everyday Thinking

Indicates a research-demonstrated benefit

Overview

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

conceptual understanding of big ideas.	
🏠 Type of Method	Full curriculum
: Level	Designed for: Teacher Prep Course
⋒ Setting	Designed for: Studio → , Lecture - Small (<30 students) Can be adapted for: Lab
Coverage	Few topics with great depth
Topics	Mechanics, Electricity / Magnetism, Thermal / Statistical
Instructor Effort	Medium
Resource Needs	Projector, Computers for students, Advanced lab equipment, Cost for students, Tables for group work
Skills	Designed for: Conceptual understanding ♠, Metacognition ♠ Can be adapted for: Making real-world connections, Using multiple representations
Research Validation	Based on research into: theories of how students learn , student ideas about specific topics . Demonstrated to improve: conceptual understanding , beliefs and attitudes
Compatible Methods	PhET, JiTT, Physlets, SCALE-UP, OSP, LA Program, CPU
N	

Developer(s)

Similar Methods

 $\label{thm:condition} \textit{Fred Goldberg}, \textit{Rebecca Kruse}, \textit{Steve Robinson}, \textit{Valerie Otero} \textit{ and Nephi}$

Thompson

PBI, PET, LEPS

Website
http://cpucips.sdsu.edu/web/pset/





