



Indicates a research-demonstrated benefit

Overview

Lab-based guided-inquiry curriculum for future and current teachers to develop deep understanding of physics content and scientific reasoning skills.

✤ Type of Method	Full curriculum
X: Level	 Designed for: Teacher Prep Course , Teacher Professional Development , Intro College Conceptual Can be adapted for: Pre-intro course for underprepared students
ffi Setting	Designed for: Lecture - Small (<30 students) 🔹 , Studio 🛸 Can be adapted for: Recitation/Discussion Session, Lab
📔 Coverage	Few topics with great depth
🗾 Topics	Mechanics, Electricity / Magnetism, Waves / Optics, Thermal / Statistical, Astronomy
Instructor Effort	High
Resource Needs	Simple lab equipment, Cost for students, Tables for group work, Very well-trained instructors, minimal equipment for experiments
2 Skills	Designed for: Conceptual understanding 🔹 , Making real-world connections, Using multiple representations, Designing experiments, Metacognition, Ability to teach by inquiry
Research 당 Validation	Based on research into: theories of how students learn Image: student ideas about specific topics specific topics Image: student interviews Demonstrated to improve: conceptual understanding Image: student interviews Studied using: student interviews Image: student interviews research by multiple groups Image: student
Compatible Methods	JITT, SCALE-UP, LA Program, Diagnoser
Similar Methods	UW Tutorials, PET, PSET

