Guide

# Explorations in Physics

Indicates a research-demonstrated benefit

## Overview

A sequence of introductory, activity-based, laboratory courses that integrate the use of guided-inquiry techniques with self-directed projects.

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| **Type of Method** | Full curriculum |
| **Level** | **Designed for:** Intro College Conceptual |
| **Setting** | **Designed for:** Studio |
| **Coverage** | Few topics with great depth |
| **Topics** | Mechanics, Waves / Optics, Thermal / Statistical |
| **Instructor Effort** | Medium |
| **Resource Needs** | TAs / LAs, Computers for students, Advanced lab equipment, Tables for group work, Studio classroom |
| **Skills** | **Designed for:** Conceptual understanding , Lab skills, Making real-world connections, Designing experiments |
| **Research Validation** | **Based on research into:** theories of how students learn , student ideas about specific topics<br>**Demonstrated to improve:** conceptual understanding , beliefs and attitudes<br>**Studied using:** student interviews |
| **Compatible Methods** | PhET, Physlets, SCALE-UP, OSP, LA Program, MBL, CPU |
| **Similar Methods** | Workshop Physics, SCALE-UP, MBL, |
| **Developer(s)** | David P. Jackson, Priscilla W. Laws, and Scott V. Franklin |
| **Website** | http://physics.dickinson.edu/~eip_web/eip_homepage.html |