



## 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.



**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 

**Demonstrated to improve:** conceptual understanding , beliefs and attitudes 

**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](http://physics.dickinson.edu/~eip_web/eip_homepage.html)

