



## RealTime Physics

 Indicates a research-demonstrated benefit

### Overview

A series of introductory laboratory modules that use computer data acquisition tools to help students develop physics concepts and acquire lab skills.





**Type of Method**

Curriculum supplement





**Level**

**Designed for:** Intro College Calculus-based , Intro College Algebra-based   
**Can be adapted for:** High School



**Setting**

**Designed for:** Lab , Homework  
**Can be adapted for:** Studio 



**Coverage**

Many topics with less depth



**Topics**

Mechanics, Electricity / Magnetism, Waves / Optics, Thermal / Statistical



**Instructor Effort**

Low




**Resource Needs**

Computers for students, Advanced lab equipment, Cost for students, Tables for group work





**Skills**



**Designed for:** Conceptual understanding , Lab skills, Using multiple representations



**Research Validation**

**Based on research into:** theories of how students learn , student ideas about specific topics 

**Demonstrated to improve:** conceptual understanding 

**Studied using:** research at multiple institutions , research by multiple groups 



**Compatible Methods**

[Peer Instruction](#), [PhET](#), [UW Tutorials](#), [JiTT](#), [Ranking Tasks](#), [ILDs](#), [CGPS](#), [Physlets](#), [Context-Rich Problems](#), [Workshop Physics](#), [TIPERs](#), [ABP Tutorials](#), [SCALE-UP](#), [OSP](#), [SDI Labs](#), [OST Tutorials](#), [Workbook for Introductory Physics](#), [LA Program](#), [CAE TPS](#), [MBL](#), [CPU](#), [TEFA](#), [Tools for Scientific Thinking](#), [Tutorials](#), [Clickers](#)



**Similar Methods**

[ILDs](#), [Workshop Physics](#), [SDI Labs](#), [MBL](#), [SCL](#), [Tools for Scientific Thinking](#)

 **Developer(s)** David Sokoloff, Ron Thornton, and Priscilla Laws

 **Website** [http://pages.uoregon.edu/sokoloff/Active\\_Learning.html](http://pages.uoregon.edu/sokoloff/Active_Learning.html)