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 Indicates a research-demonstrated benefit

Overview

A curriculum for pre-service teachers. Students craft and investigate their own scientific questions about a range of scientific topics.

 Type of Method	Instructional strategy
 Level	Designed for: Teacher Prep Course  Can be adapted for: High School, Intro College Conceptual
 Setting	Designed for: Lab  Can be adapted for: Lecture - Small (<30 students), Studio
 Coverage	Few topics with great depth
 Topics	Mechanics, Electricity / Magnetism, Waves / Optics, Thermal / Statistical, Astronomy, Other Science
 Instructor Effort	High
 Resource Needs	Advanced lab equipment
 Skills	Designed for: Making real-world connections  , Using multiple representations  , Designing experiments  Can be adapted for: Conceptual understanding
 Research Validation	Based on research into: theories of how students learn  Demonstrated to improve: beliefs and attitudes  Studied using: student interviews 
 Compatible Methods	PhET , JiTT , Physlets , SCALE-UP , OSP , LA Program , CPU , Energy Project , Responsive Teaching
 Similar Methods	Energy Project , Responsive Teaching
 Developer(s)	Leslie Atkins
 Website	http://phys.csuchico.edu/~l/atkins/SGSI/
 Intro Article	12971

