



Student-Generated Scientific Inquiry

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

