




## 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**

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