



## 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/~ljatkins/SGSI/>



**Intro Article** 12971

