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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.

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

