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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.

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|  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 |

