Guide

Energy Project

Indicates a research-demonstrated benefit

Overview

A professional development program for K-12 teachers on the learning of energy. Teachers construct an understanding about energy and about learning.

Type of Method	Instructional strategy
Level	**Designed for:** Teacher Professional Development **Can be adapted for:** Teacher Prep Course, Intro College Conceptual
Setting	**Designed for:** Lecture - Small (<30 students)
Coverage	Few topics with great depth
Topics	Mechanics, Thermal / Statistical
Instructor Effort	High
Resource Needs	Tables for group work
Skills	**Designed for:** Using multiple representations , Conceptual understanding, Making real-world connections, Metacognition, To pay attention to their students' thinking, To experience science as an area where they and their students are empowered to figure things out
Research Validation	**Based on research into:** theories of how students learn , student ideas about specific topics **Studied using:** classroom observations
Compatible Methods	PhET, Physlets, SCALE-UP, OSP, CPU, SGSI, Responsive Teaching
Similar Methods	SGSI, Responsive Teaching
Developer(s)	Hunter Close, Eleanor Close, Lezlie DeWater, Stamatis Vokos, Lane Seeley, Rachel Scherr, and Sam McKagan

Website	http://www.energyprojectresources.org/
Intro Article	10368
Intro Article	Using the Algebra Project Method to Regiment Discourse in an Energy Course for Teachers