

Understanding Earth's Energy Sources

Grades: 9-12

Topics: Biomass, Wind Energy, Hydrogen and Fuel Cells, Solar, Vehicles, Geothermal

Owner: ACTS

**Standard's Guide to Learning
Middle School Hands-On Science Elective Class**

Student:
Grade:
Date:

Proficiency Levels

<u>Math</u>	B	PP	P	A
Collect, organize, analyze, and graph (e.g., line plots, bar graphs, coordinate graphs, stem-and-leaf plots) categorical and numerical data.				
Distinguish between categorical and numerical data.				
Use graphs and statistics to describe and compare two data sets.				

Science

Understand the processes of scientific investigation and design, conduct, communicate about and evaluate other such investigations.				
Create a written plan for an investigation.				
Use appropriate tools, technologies, and measurement units to gather and organize data interpreting and evaluating data in order to formulate conclusions.				
Communicate results of their investigation in appropriate ways.				
Use metric units in measuring, calculating, and reporting results.				
Explain that scientific investigations sometimes result in unexpected findings that lead to new questions and more investigations.				
Understand interrelationships among science, technology, and human activity and how they effect the can world.				
Describe uses of renewable and non-renewable resources.				
Describe advantages and disadvantages that might accompany the introduction of a new technology.				
Identify and analyze ways in which advances in science and technology have affected each other and society.				
Identify, compare, and predict variables and conditions related to change.				
Identify and illustrate natural cycles within systems.				
Recognize that patterns exist within and across systems.				

B-Beginning
PP-Partially Proficient
P-Proficient
A-Advanced

