



## Lesson Plan: Converting Fuels to Obtain Energy

### Objectives:

- Students will be able to identify several fuels
- Students will be able to describe several uses for the energy obtained from the fuels
- Students will be able to identify devices that convert energy in fuel to some other form of energy
- Students will be able to recognize that some energy is wasted in every fuel conversion process

### Standards: (Cited from Ohio's Department of Education)

- 6-8: Describe renewable and nonrenewable sources of energy (e.g. solar, wind, fossil fuels, biomass, hydroelectricity, geothermal, and nuclear energy) and the management of these sources (pg. 121)
- 6-8: Describe that energy takes many forms, some forms represent kinetic energy and some forms represent potential energy, and during energy transformations the total amount of energy remains constant (pg. 121)
- 6-8: Analyze and interpret data from scientific investigations using appropriate mathematical skills in order to draw valid conclusions (pg. 122)

### Activities:

1. Follow instructions according to "Converting Fuels to Obtain Energy" Worksheet
2. Includes – Glossary of Energy Terms, Chart to document Use of Fuel Energy, Chart to document Conversion of Fuel Energy

### Assessment:

- Completion of glossary
- Completion of charts
- Participation in group discussion, activity

Source: Alliance to Save Energy