# Lesson Plan: The Appliance Explosion

Objectives:

- Students will be able to conduct a survey
- Students will be able to collect and record data
- Students will be able to construct a bar graph
- Students will be able to interpret results
- Students will be able to understand the generational difference between energy use
- Students will be able to distinguish between nonessential and essential appliances

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. Have students complete worksheets at home after a presentation of how energy is consumed and used
2. Discuss results and do final worksheet in class the next day

Assessment:

- Completion of homework assignment
- Completion of bar graphs
- Participation in group discussion

Source: Alliance to Save Energy