

8 POINTS**LESSON PLAN:**
ENERGY AUDIT*(Image: Library of Congress, 2017829435.)***INTRODUCTION**

Have students conduct a simple home energy audit using the form provided. This activity will get them focused on a variety of simple ways they can start conserving energy at home. You can adapt this form to conduct a school audit, too

MATERIALS

+ Energy Audit Worksheet

OBJECTIVES

Through the completion of the energy audit, students should gather data and quantify energy use in their own homes or possibly at school. When this information is compiled, students should be able to see how they can adjust behaviors to help contribute to energy conservation.

TIME REQUIREMENT

1 class period

KEY THEMES**ENERGY
CONSERVATION**

COMMON CORE STANDARDS

CCSS.ELA-LITERACY.WHST.6-8.7

Conduct short research projects to answer a question (including a self-generated question), drawing on several sources and generating additional related, focused questions that allow for multiple avenues of exploration.

CCSS.ELA-LITERACY.RST.6-8.9

Compare and contrast the information gained from experiments, simulations, video, or multimedia sources with that gained from reading a text on the same topic.

PROCEDURES

1. Send your students home with this easy energy audit.
Encourage them to complete the audit with their families so that everyone can see the results.
2. Discuss the question “What changes can I make at home to use less energy and water?” On the board, create a list of the reasons. Have students copy them on the provided worksheet.
3. Extension: Modify this audit to complete in your classroom/school.
4. Students and their parents can learn more about making their homes more energy efficient by visiting www.energy.gov.

ASSESSMENT

Students who successfully fill out the energy audit form should apply the gathered data toward an understanding of larger behavior patterns. In this way, they will be able to critically assess their own energy usage. Successfully connecting the data to their behaviors will demonstrate the students’ knowledge of how their actions can lead to changes either at home, at school, or both.

NAME:**DATE:****ENERGY AUDIT WORKSHEET****Directions:** Count the number of the following.**WATER USE**

- _____ How many minutes do you spend in the shower?
- _____ Do you leave the faucet on while you brush your teeth?
- _____ How many faucets are there in your house?
- _____ How many faucets are leaky?
- _____ How many toilets in your house?
- _____ Do any of the toilets continue to run?
- _____ How long is the clothes washer cycle?
- _____ How long is the dishwasher cycle?
- _____ Do you use a sprinkler to water the lawn?
- _____ How many hours per week do you water the lawn??

ENERGY USE AND ENERGY LOSS

- _____ Incandescent Lights Bulbs
- _____ CFL Bulbs
- _____ How many windows are in your house?
- _____ How many windows have cracks in them?
- _____ How many windows don't close completely?
- _____ Do you leave the television on when you leave the room?
- _____ How many things are plugged in around your house?
- _____ How many of these things are currently being used?
- _____ Does your house have solar panels on the roof?

What changes can I make at home to use less energy and water?

Fuel Fights!

SAVE YOUR SHARE

- 1** Keep temperature at 65° F. during day - lower at night.
- 2** Don't heat unused rooms.
- 3** Keep windows closed.
- 4** Draw window shades at night.
- 5** Shut off heat when weather permits.
- 6** Keep heating plant in top condition.
- 7** Use less hot water.



Saving fuel also saves manpower, material, equipment
CONSERVE COAL, OIL, GAS... FOR WAR

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