8 POINTS



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 complied, 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

- 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.
- 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 <u>www.energy.gov.</u>

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:

ENERGY AUDIT WORKSHEET

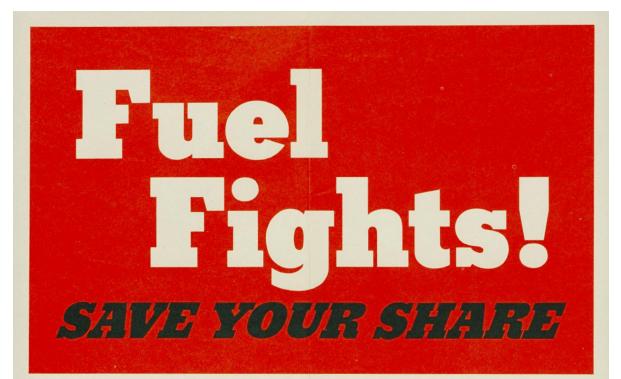
Directions: Count the number of the following.

WATER USE

ENERGY USE AND ENERGY LOSS

———— How many minutes do you spend in the shower?	Incandescent Lights Bulbs
Do you leave the faucet on while you brush your teeth?	CFL Bulbs
	How many windows are in your house?
How many faucets are there in your house?	How many windows have cracks in them?
How many faucets are leaky?	How many windows don't close completely?
How many toilets in your house?	Do you leave the television on when you
Do any of the toilets continue to run?	leave the room?
How long is the clothes washer cycle?	How many things are plugged in around your house?
How long is the dishwasher cycle?	How many of these things are currently being used?
Do you use a sprinkler to water the lawn?	
How many hours per week do you water the lawn??	Does your house have solar panels on the roof?

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



- 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

(Image: Northwestern University, 9969585534202441.)