

Energy Efficiency Make a Difference

Name _____

Observe the “carbon footprint”. Write three questions you have:

- 1.
- 2.
- 3.

How does energy contribute to the carbon footprint worldwide??

Conduct a Home Energy Audit. (on page 2) Depending on the type of home or apartment you live in, some of this information may not be available but do your best. Parents can be good sources of information.

Give your home a point for every “yes” answer. What is your score? _____

Analyze ways to improve your homes’ energy efficiency. You will be given a budget of \$500 to propose solutions to make your home more energy efficient. You may use the following site:

<https://www.energy.gov/energysaver/energy-saver> for additional information.

Describe the solution, criteria (specific details) and constraints (limitations) of each option you choose.

Solution/Cost	Criteria	Constraints

Prepare a 3-5 minute presentation on your Home Energy Efficiency Plan.

Home Energy Audit

- Windows and doors have good weather stripping T F NA
- Window coverings are open on cold, sunny days and closed on hot days. T F NA
- Window coverings are closed at night when heating or cooling systems are on. T F NA
- Thermostat is set at 68 F (20 C) or lower in winter. T F NA
- Air conditioning is set a 78 F (26 C) or higher in summer T F NA
- Ducts are insulated in unheated/uncooled areas. T F NA
- Garage is insulated. T F NA
- Air filters on furnace and air conditioners are cleaned and changed regularly. T F NA
- An energy audit has been conducted from your local utility in the last 3 years. T F NA
- Thermostat is adjusted at night T F NA
- Fireplace damper is kept closed when the fireplace is not in use. T F NA
- Are older appliances replaced with more energy efficient ones? T F NA
- Is your water heater insulated? T F NA
- Is the temperature of water set at 120 degrees F? T F NA
- Are electronics unplugged when not in use? T F NA
- Are LED or CFL light bulbs replacing older incandescent bulbs? T F NA
- Are lights turned off when not needed? T F NA
- Do doors fit tightly? T F NA
- Is there insulation in the ceiling or walls? T F NA
- Are windows shaded by trees or curtains from summer sun? T F NA