

ENERGY TRANSFORMATIONS

Mr. Erick
Santizo

REVIEW VIDEO

BBC TWO
Energy resources



The different forms of energy

Energy resources

EXPLORE: FIND THE ENERGY TRANSFER FROM ONE TO ANOTHER TYPE OF ENERGY

- a. A toaster transforms _____ energy into _____energy.
- b. A blender transforms _____ energy into _____energy.
- c. The sun transforms _____ energy into _____energy
- d. Our bodies convert _____ energy from food into _____ energy and _____ energy to allow us to move.
- e. A natural gas stove converts _____ energy from burning into _____ energy used to cook food.

EXPLORE: FIND THE ENERGY TRANSFER FROM ONE TO ANOTHER TYPE OF ENERGY

- a. A toaster transforms **electrical energy** into **thermal energy**.
- b. A blender transforms **electrical** energy into **mechanical** energy.
- c. The sun transforms nuclear energy into ultraviolet, infrared, and gamma energy all forms of **electromagnetic energy**.
- d. Our bodies convert chemical energy from food into **mechanical** and **electrical** energy to allow us to move.
- e. A natural gas stove converts **chemical** energy from burning into **thermal** energy used to cook food.

BELOW EXPLAIN THE FORMS OF ENERGY THAT OCCUR IN ORDER FROM BEGINNING TO THE END



CAR

Four chevron-shaped boxes for writing the energy forms for a car.



TELEVISION

Four chevron-shaped boxes for writing the energy forms for a television.



TOASTER

Four chevron-shaped boxes for writing the energy forms for a toaster.



SUN

Four chevron-shaped boxes for writing the energy forms for the sun.



ELECTRIC GUITAR

Four chevron-shaped boxes for writing the energy forms for an electric guitar.

WHY DO WE NEED TO SAVE ENERGY?

- You've probably heard the grown-ups in your house say "Turn off the light!" or "Close the refrigerator door!" Have you ever wondered why?
- Energy is there whenever we need it, so it's easy to forget where it comes from, or how much it costs.

WAYS TO CONSERVE ENERGY?

- **1. Shut off the lights when you're done using them, and turn off the TV, computer, video games and other electrical stuff when you leave the room.**
- **2. Don't leave the refrigerator door open.** Every time you open the door, up to one-third of the cold air can escape.
- **3. Replace a burnt-out light bulb with a new compact fluorescent bulb.** Fluorescent bulbs use 75 percent less energy, and they last 10 times longer.
- **4. Fix dripping faucets.** One drop per second can add up to 165 gallons of hot water a month - that's more than one person uses in two weeks!
- **5. Take a short shower instead of a long bath.** It might take 25 gallons of hot water to fill the bathtub, compared to only seven gallons for a quick shower.
- **6. plant a tree to help shade your house on hot summer days.**

CLOSURE



ASSIGNMENT

- Put yourself in the situation of being the news reporter for any media in Belize. They are to report on the issues of conserving energy and what are some alternative sources of energy the country should use?