

Energy Conversion Poster Project

We have discussed the 8 forms of energy.

For this project, you will make a small poster with pictures that are good examples of energy conversions. Underneath each picture, you will document the energy conversion by writing down the energy that is being used and the energy that is being generated.

Machine = anything that converts energy from one form into another form.

Using this definition, almost anything, including you, is a machine.

Directions:

- ___1. Think of at least 6 machines that convert energy from one form to another.
 - a. Draw your own pictures of the machines
 - b. Or cut pictures out of old magazines or newspapers.
- ___2. Fold the large sheet of paper in half before you start pasting pictures to it. This will make it easier to carry it with you in your binder.
- ___3. Draw or Paste the pictures to your paper. Make sure you leave room for your explanations.
- ___4. Label each of your drawings and pictures so I know what they are.
- ___5. Under each picture, you will document the energy conversion.
 - a. Write the form of energy that is going in or is being used by the object in the picture.
 - b. Then draw an arrow to show that an energy conversion is happening.
 - c. At the other end of the arrow, write the form of energy that is coming out of the conversion.
 - d. If there are a series of conversions taking place, list all of the conversions.

Make sure your arrows are going the correct direction: from the energy input to the energy that is given off or coming out.

Examples:



Hair dryer:

electrical energy → mechanical energy
and heat energy



Boombox radio:

chemical energy → electrical energy → sound energy

Remember: batteries, food, and the energy stored in your own body are great examples of chemical energy.