

Making an Energy Web

Identify the Need / Define the Problem:

Did you know how much energy you use in a day? Most people don't. That's because almost everything you do requires some form of energy.

In this activity, you will identify the various forms of energy you use on a daily basis. You will create an "Energy Web" out of your data.

Gather Information:

Research the different kinds of energy. For example, what form of energy do you use when you turn on the stove? For further information, research the Energy Information Administration, which is a part of the U.S. Department of Energy. This organization has an informative Web site that further explores the science of energy, including forms, calculations, and sources.

Develop Possible Solutions:

Develop different formats in which to record your information. Your data must be organized so that it can be easily understood.

Model a Solution:

1. List all activities you do in a typical day that require energy.
2. Identify the various forms of energy that are required for these activities.
3. Identify the various sources for these forms of energy
4. Record your daily activities, the related energy forms, and the energy sources.
5. Create an energy web. Place yourself at the center of the web. Around you should be the various forms of energy that you use on a daily basis. Located around those forms of energy should be the various activities that you do that utilize those sources (Figure B on page 195)

Test and Evaluate the Solution:

- Are there many activities that come up multiple times? List these instances.
- Which activities are a "need" and which ones are a "want"? List each activity as a "need" or "want".

Refine the Solution:

- As you have probably noticed, you use quite a bit of energy throughout the day. Some of this energy may be wasted. List the activities that you do in order of importance.
- What activities can you still do if you had no modern energy sources available to you?

When you are done. You are to upload your activity to Blackboard Learn. There will be a location where you can submit your assignment.

Grading Rubric:

Item	4	3	2	1	0
Daily activities, related form of energy, energy sources.					
Energy Web					
Activities that come up multiple times					
“Needs” and “Wants”					
Order of Importance					
Activities without modern energy sources					

Total Points = 24 Points