

**Background:**

1. What is the original source of all energy used by living organisms?
2. Which living organisms are able to capture or gather this energy?
3. What is the process that uses this energy to put it to good use?
4. What is the equation that shows us how this original source of energy is used?
5. What is the result of all of this use of the original source of energy?
6. How is this energy passed through the food web?
7. What unit do we use to measure this energy?
8. What is the difference between a chemistry calorie and a food calorie?
9. How much heat would a food calorie provide?
10. How many food calories does the average human consume a day?
11. How much heat would this amount of energy provide?
12. What is the definition of energy?
13. In what ways do plants and animals use energy? Brainstorm a list with your group. (1 point)

**Procedure:**

1. Sort the **31** energy use strips into the four categories. List them in the space below.  
(1/3 point per strip of paper 10 and 1/3 points total)

Category #1 **Movement**

Category #2 **Growth and Reproduction**

Category #3 **Maintenance**

Category #4 **Waste**

2. In which category is food produced? (1/2 point)