

# Living Local worksheet

## Consumption - Energy and Material Use

Name \_\_\_\_\_

1. Think about all the devices you and your family use on a daily basis, including phones, tvs, ipads, and play stations. Don't forget all the appliances you use in your home (toaster, microwave, refrigerator). Does your family use a car or bus for transportation? Do you have a lawn that needs to be mowed? Do you have air conditioning and heating in your house? How often do you go shopping and purchase new clothes and other items? List them below.

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2. All this consumption has many costs beyond just what you pay – the energy and resources required to provide these goods and services have environmental impacts called externalities. Externalities are costs and benefits associated with producing a good or service that are not included in the market price. The extraction and production of certain sources of energy are processes that creates many externalities including pollution, habitat loss, water contamination and more. What examples can you identify in the mural that show energy sources? Are they renewable or non-renewable?

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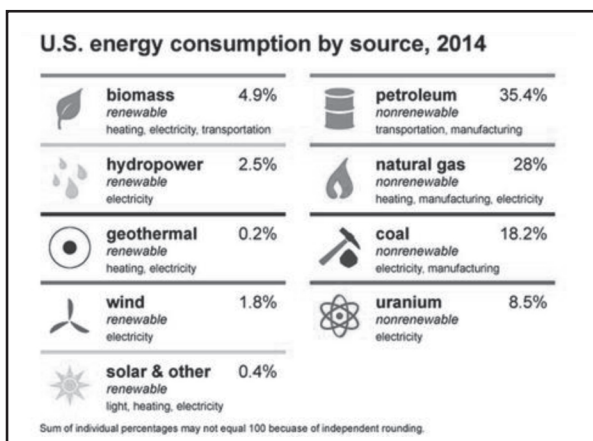
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3. What examples can you identify in the mural that show energy use? Are these uses essential/necessary or are they just for aesthetics and entertainment? What could be done to make these uses more sustainable?

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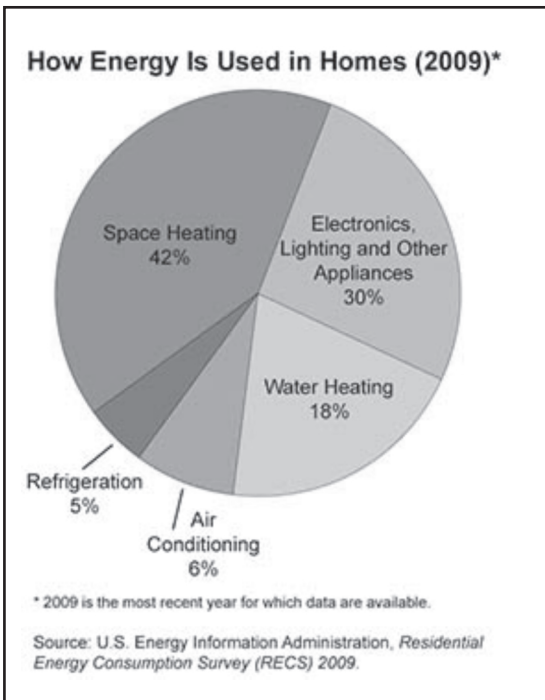
From the US Energy Information Administration

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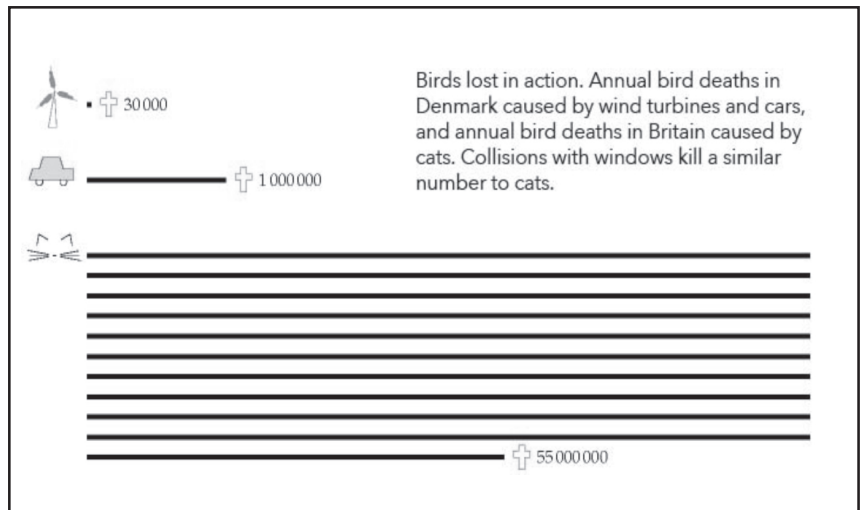
Name \_\_\_\_\_

4. What is the biggest use of energy in the typical US home? \_\_\_\_\_
5. How much of the US energy use is supplied by renewable forms of energy? \_\_\_\_\_
6. What could families do to reduce this use?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



7. Do more birds get killed by wind turbines or cats each year?

WT or  C



Source: *Alternative Energy Without the Hot Air*, by David MacKay  
[http://www.inference.phy.cam.ac.uk/withouthotair/c10/page\\_63.shtml](http://www.inference.phy.cam.ac.uk/withouthotair/c10/page_63.shtml)