

NAME: _____ DATE: _____ Web Quest

Directions: Go to the U.S. Energy Information Administration's Energy Kids website, <http://www.eia.doe.gov/kids>, to find the answers to the questions below. Read the "Forms of Energy?" page in the "What is Energy?" section to answer question 1. Then go back to the homepage and look under "Energy Sources" to find the rest of your answers.

1. What is energy?

2. What are the 5 main types of renewable energy?

3. Why are these types of energy considered renewable?

4. What are the 4 main types of nonrenewable energy?

5. Why are these types of energy considered nonrenewable?

6. Name four fossil fuels? Why are they called "fossil" fuels?

7. What is the most common form of renewable energy used to generate electricity? What percentage of U.S. electricity generation comes from this source?

8. What causes wind? How does the process reverse itself between day and night?

9. How do engineers use the earth's heat to create geothermal energy?

10. Biomass involves burning organic material to release chemical energy. What are the steps in the carbon cycle that describe this process?

11. What are 10 different petroleum products that come from "crude oil"?
 - 1.
 - 2.
 - 3.
 - 4.
 - 5.
 - 6.
 - 7.
 - 8.
 - 9.
 - 10.

12. Name and describe 4 major uses for coal.

- 1.
- 2.
- 3.
- 4.

13. In terms of percentages, what are the 3 biggest uses of natural gas?

- 1.
- 2.
- 3.

14. Nuclear energy is considered a nonrenewable energy, but it is not a fossil fuel. What is it? [HINT: this question is not answered directly. You must INFER what type of material it is, given your knowledge of geology, from the information that is given. THINK!]

15. In terms of safety and the environment, what is one positive thing and one negative thing about nuclear power plants?