

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Pd: \_\_\_\_\_

## Energy WebQuest

*You must follow the instructions step by step. Do not jump ahead. You will be using the website below to answer questions about energy resources.*

- Log in to the computer (Login: Student ID Number email: birthdate)
- Open up the internet and go to the site: <http://www.eia.gov/kids/index.cfm>
- Click on Energy Sources.

1.) List the forms of nonrenewable energy. (Hint: they are written in blue!)

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- Now, click on the word “Oil (Petroleum)”

2.) How is oil formed? \_\_\_\_\_

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3.) What does the word “petroleum” mean? \_\_\_\_\_

4.) Describe crude oil and where it is found. \_\_\_\_\_

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5.) What are the five top crude-oil producing countries? \_\_\_\_\_

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6.) List 3 products that crude oil is used to produce that is used in everyday life in the U.S.

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- Click on the Back button. Now, click on the word “Natural Gas.”

7.) Describe the physical properties of natural gas. \_\_\_\_\_

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8.) List 3 uses of natural gas in the everyday lives of people in the U.S.

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9.) Compared to other energy resources, is natural gas considered to be positive or negative for the environment? \_\_\_\_\_

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• **Click on the Back Button.**

**Now, click on the word “Coal.”**

10.) Describe the physical properties of coal. (look at the “Did you Know” on the left) \_\_\_\_\_  
\_\_\_\_\_

11.) What are the two methods of mining used to get coal out of the ground?  
\_\_\_\_\_

12.) Write one sentence summarizing the paragraph, “Transporting Coal.”  
\_\_\_\_\_  
\_\_\_\_\_

13.) How many states is coal mined in? \_\_\_\_\_

14.) List 4 uses of coal in the everyday world. \_\_\_\_\_  
\_\_\_\_\_

15.) Name one negative effect of mining coal on the environment. \_\_\_\_\_  
\_\_\_\_\_

• **Click on the Back button.**

**Now, click on the word “Nuclear.”**

16.) What is nuclear energy? \_\_\_\_\_  
\_\_\_\_\_

17.) What percentage of nuclear electricity is generated in the U.S.? \_\_\_\_\_

18.) How many nuclear power plants are in the U.S. today? \_\_\_\_\_

19.) Nuclear power plants generate \_\_\_\_\_.

• **Click on the Back Button.**

20.) What are the 5 forms of renewable energy resources? \_\_\_\_\_  
\_\_\_\_\_

• **Click on the word “Solar.”**

21.) What is solar energy? \_\_\_\_\_

22.) Solar energy is converted into what energy? \_\_\_\_\_

23.) Give two examples of how solar energy is used. \_\_\_\_\_  
\_\_\_\_\_

24.) What do solar cells do? \_\_\_\_\_

25.) What are two benefits to solar energy? \_\_\_\_\_  
\_\_\_\_\_

26.) What are the 2 main disadvantages to solar energy? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- **Click on the Back Button.**                      **Click on the word “wind.”**

27.)        What did American colonists use windmills for? \_\_\_\_\_  
\_\_\_\_\_

28.)        What do wind machines produce? \_\_\_\_\_

29.)        Describe the negative effects of wind machines. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- **Click the Back Button.**                      **Click on the word “Geothermal.”**

30.)        What does the word “geothermal” mean? \_\_\_\_\_

31.)        What is geothermal energy? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

32.)        Geothermal energy is generated in the \_\_\_\_\_.

33.)        Name 2 ways people have used direct geothermal energy? \_\_\_\_\_  
\_\_\_\_\_

- **Click on the Back Button.**                      **Click on the word “Biomass.”**

34.)        What does Biomass mean and what does it contain? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

35.)        Name 3 things that are biomass materials. \_\_\_\_\_  
\_\_\_\_\_

36.)        How can biomass energy be negative to the environment? \_\_\_\_\_  
\_\_\_\_\_

- **Click on the Back Button.**                      **Click on the word “Hydro.”**

37.)        Hydroelectric power generates what type of energy? \_\_\_\_\_

38.)        What 3 states hold over one-half of the total U.S. hydroelectric capacity for electricity?  
\_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_.

39.)        Most dams in the United States were not built to provide electricity, but for  
\_\_\_\_\_ and \_\_\_\_\_.

- **Click the Back Button.**
- **Click the phrase “Using and Saving Energy.”**
- **Then Click on Energy Use Basics**

40.) What are the 4 areas in which energy is used? \_\_\_\_\_  
\_\_\_\_\_

- **Click the Back Button**
- **Now, click on the phrase “In Homes.”**

41.) List 3 ways in which energy is used in our homes. \_\_\_\_\_  
\_\_\_\_\_

42.) What is the most used type of energy in the home? \_\_\_\_\_

- **Click on the Back Button twice**
- **Click on the phrase “What is Energy”**
- **Now, click on “Energy Basics**

43.) List the 7 forms of energy  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

44.) Which energy source provides us with the most energy in the U.S.?  
\_\_\_\_\_