***Energy Webquest***

Use the website [http://www.energyquest.ca.gov/story/index.html](http://www.energyquest.ca.gov/story/index.html%20) to help you answer the following questions. You will need to decide which chapter of the Energy Story you will need to visit to find the answers! Good luck!

1. What is energy (Define)?

2. What are the six forms of energy? Find an example of each.

1.

2.

3.

4.

5.

6.

3. True or False: Potential energy is stored energy.

4. The two types of energy are potential energy and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ energy.

5. Heat energy moves in these three ways. Match the word to its meaning.

a. Conduction

b. Radiation

c. Convection

\_\_\_\_\_movement of gases or liquids from a warmer to cooler spot

\_\_\_\_\_heat traveling in straight lines like the rays of the sun

\_\_\_\_\_energy passed directly from one item to another

6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are two units of measure for energy.

7. Energy can only be changed into another sort of energy. It cannot be

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ nor can it be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

8. Give three examples of energy being changed to other forms.

1.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

9. Sources of energy can be divided in to two categories, renewable and nonrenewable.

Name 5 common renewable sources of energy.

1.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

10. Name 4 nonrenewable sources of energy.

1.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

11. Stored energy in a flashlight's batteries becomes \_\_\_\_\_\_\_\_\_\_\_ energy when turned on.

12. Food contains energy stored as \_\_\_\_\_\_\_\_\_\_\_ energy. Your body uses he stored energy to do work.

13. If you overeat, the food's energy is stored as \_\_\_\_\_\_\_\_\_\_\_energy in fat.

14. When you talk on the phone, your voice is changed to \_\_\_\_\_\_\_\_\_\_\_ energy.

15. The phone on the other end changes the electrical energy into \_\_\_\_\_\_\_\_\_\_\_ energy.

16. A car uses stored \_\_\_\_\_\_\_\_\_\_\_ energy in gasoline to move. The engine changes the\_\_\_\_\_\_\_\_\_\_\_ energy into heat and kinetic energy to power the car.

17. A toaster changes electrical energy into \_\_\_\_\_\_\_\_\_\_\_ energy.

18. A television changes \_\_\_\_\_\_\_\_\_\_\_ energy into light and sound energy.

19. Essentially, all energy is from the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

20. Energy from plants is known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.