

Name: _____

Understanding Electricity Exploration Sheet

1. How is electricity similar to water flowing through a pipe?
2. What is voltage?
3. In your own words, explain how the water tank images relate to pressure and voltage.
4. What is electrical current?
5. What determines the amount of electric current (number of electrons) that can flow through a wire?
6. What is electrical power?
7. What is the relationship between voltage, current, and power?
8. What is British Thermal Unit (BTU)?
9. The higher the BTU value of a fuel, the _____ efficient it is.

10. What is a joule?

11. How many watts are equal to one kilowatt?

12. What units are used in electric utilities?

13. How much power (W) does a TV use?