Post-Activity Quiz

- 1. What role does the fruit or vegetable play in the battery?
- 2. What roles did the metals, e.g. copper penny, aluminum and/or galvanized zinc scree or nail play in the battery?
- 3. Describe which battery configuration produced the highest power and describe why it produced more power than the other designs.
- 4. What is the relationship between the output current and the distance between the anode and cathode?
- 5. Give the definitions of an anode and cathode. Which metals in your experiments were anodes or cathodes?
- 6. Draw a diagram to illustrate the circuit design that produced the maximum amount of power.



7. Draw a diagram of the circuit that produced the correct amount of voltage and current to turn on the LED light bulb.

8. What are independent and dependent variables?

- 9. In the following scenarios, identify the independent and dependent variables...
 - a. Cost of pizza and number of pizza toppings.
 - b. How fast the grass grows and how much rain we get.
 - c. The number of problems missed on a test and your grade on the test.
 - d. How long I talk on my cell phone and the number of minutes on my calling plan.
 - e. The amount of money I make and the number of hours I work.
 - f. The number of cakes sold in a bake sale and the amount of money made.



Name: Date: Class:

10. You are given the following data on the relationship between John's test score and the number of hours he studies.

Number of Hours John Studies	John's Test Score
0	75
0.5	80
1.0	85
1.5	90
2.0	95
2.5	100

- a. What are the independent and dependent variables?
- b. How are the independent and dependent variables related? (Be precise)

