Name: _____ Date: _____

Electricity Assessment

Please follow the directions very carefully, part of being a scientist is following directions, conducting experiments, and writing about the outcomes. Please answer questions in complete sentences.

1.) Please use the materials at your station to assemble a circuit, attach the two alligator clips to one another so that the circuit is complete, (bulb lit), and raise your hand for the teacher to check.

2.) Use the data table below to test the five items on your circuit. Place an "x" in the column provided to identify weather it is a conductor or an insulator.

Object	Conductor	Insulator
penny		
metal key ring		
plastic straw		
piece of chalk		
blue object		

What must an object be made out of in order to be a conductor?

_____

_____

3.) Now take the blue object and lay the metal paper clip provided within an inch of it. Is the paper clip attracted to the object? Yes or No (circle one)

4.) What is the blue object? _____

5.) Why is it not a conductor?

_____

_____

6.) What must an object be made of in order to be attracted to the blue object?

_____

_____

7.) Who is the person that discovered electricity? _____

8.) In what for and how did he discover electricity?

_____

_____

_____

_____

_____

_____

Assessment page two

9.) The pictures are not in order of the path electricity travels to our homes. You must put the correct number starting with one next to correct picture. Remember it must be in order in the path that it travels to our homes.

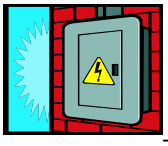
Grid of power lines

_____

Substations

_____

Service box



_____

Into my house

_____

Power lines going into transformers

_____

Power plant

_____

Unused electricity flows back into the power lines

_____

Assessment Page Three

10.) Does electricity originally come from the electrical outlet in my house? Yes or No

11.) Where does electricity originate from?

_____

_____

12.) Where does the unused electricity go?

_____

_____

13.) What are three electrical devices that you use daily?

_____

_____

14.) What are three pieces of advice to electrical devices safely?_____

_____

_____

_____

_____

15.) List three interesting facts that you learned about during this unit?_____

_____

_____

_____

16.) Write any other questions you may still have about electricity,

_____

_____

_____

_____

_____

_____