

Physical Science

Electrical assignment #1

Name _____

Class Period _____

Date _____

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Note: for this assignment you must use the “Electricity Notes” handout to find the answers. Do not use your book!

1. Name the three major particles that compose atoms and list their electric charge and location.

<i>Particle Name</i>	<i>Charge</i>	<i>Location</i>

2. What is **electricity**?

3. Define **direct current electricity**.

4. Define **alternating current electricity**.

5. Explain the difference between **electrical conductors** and **electrical insulators**.

6. What is electrical **current**?

Please continue on the other side.

7. What is **voltage**?

8. What is electrical **resistance**?

9. What is the metric unit for measuring electrical **current**?

10. What is the **symbol** for the metric unit used for measuring electrical **current**?

11. What is the metric unit for measuring **voltage**?

12. What is the **symbol** for the metric unit used for measuring **voltage**?

13. What is the metric unit for measuring electrical **resistance**?

14. What is the **symbol** for the metric unit used for measuring electrical **resistance**?

15. What is normally the **highest** voltage for an American car battery?

16. What causes an object to become **negatively charged**?

17. What causes an object to become **positively charged**?

18. Explain why metallic elements are good **conductors**.
