

Electricity Assignment #2

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Date _____ Hour _____ Name _____

Note: for this assignment you must use the “electricity notes” handout to find the answers.

Do not use your book!

1. What does the term **voltage** mean? _____

2. What are two other terms for voltage?

3. What is the **unit of measurement** for voltage? _____
4. How fast does electricity travel through the best conductors? _____
5. Ordinary flashlights normally operate on what range of voltages? _____
6. What voltage do most modern car batteries produce? _____
7. What does the abbreviation **VDC** (or **vdc**) stand for? _____
8. What are the two most common **household voltage ranges**? _____
9. What voltage is the **biggest killer** in the world? _____
10. What does the term **amperage** mean? _____

11. What is a **coulomb**? _____
12. What do we call a **coulomb/sec**? _____
13. **Amp** is a shortened version of what term? _____
14. In the subject of electricity, what is meant by the term **resistance**?

15. What causes electrical resistance in conductors?

16. Why do some materials conduct electricity far more easily than others?

17. Explain why no material is the perfect insulator.

18. What unit is used to measure electrical resistance? _____

19. What is the symbol for electrical resistance? _____

20. What energy change occurs when electricity passes through any material with electrical resistance?

21. What is the name of the electrical component (device) that is designed to provide a measured amount of electrical resistance?

22. Name at least two energy sources **other than fossil fuels** that we can use to produce electricity.

23. If we have a set of insulated wires that are connected in a complete circuit and a magnet, how could we make electrons move in the circuit?

24. In providing electricity to our homes and businesses, what is one of the most important advantages of AC as opposed to DC?

25. What are transformers used for?

26. What type of electrical power company transformer is found closest to our homes?

27. What is the symbol for the electrical unit of voltage? _____

28. What is the symbol for the electrical unit of amperage? _____