

Name: _____

Period: _____

HW Unit 9:1 — Guided Reading
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B-day: Due Fri., 3/9 (Assig: 3/7)
A-day: Due Mon., 3/19 (Assig: 3/8)

Find the chapter on Electricity.

1. Why does the girl's hair stick to the balloon?

2. How do they charge the balloon?

3. Why do the two balloons repel each other?

4. Like charges: _____; Opposite charges: _____.

5. What are the two types of charge?

6. Where do charges come from (at the atomic level)?

7. Electrons are _____.

8. Protons are _____.

9. Neutrons are _____.

10. Which moves: electrons or protons?

11. If an object is negative did it lose or gain electrons?

12. If an object is positive did it lose or gain electrons?

13. Do the following attract each other or repel each other?

A)  B) 

C)  C) 

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14. What is the charge of a single electron?

15. Is it possible for something to have a charge of $1.4 \times 10^{-19} \text{ C}$?

16. Why or why not?

17. What is the difference between a conductor and an insulator when talking about electricity?

18. P. 432—Give the two ways that you can charge an object.

19. What do we call the force between charged objects?

20. Remember that all forces are v_____.

21. That means that d_____ matters.

22. What do we call the REGION in which there is an electric force (this is the space around a charge)?

23. Thinking back to gravity: if two charges move away from each other, does the force between them increase or decrease?
