

Name: _____

Period: _____

HW Unit 9:2 — Electricity
Mr. Murray, IPC
cstephenmurray.com

A-day: Due Tues., 3/20 (Assig: 3/9)
B-day: Due Mon., 3/21 (Assig: 3/19)

1. True or False and why: "A positive object gained protons."
2. A balloon pulls toward your chest and sticks. Is the balloon oppositely charged from your chest or same charge?
3. How do you know?
4. Positive (+), Negative (-), or Neutral (0)
 - A) ___ An object has 20 protons and 25 electrons.
 - B) ___ An object has 16 positives and 16 negatives.
 - C) ___ An object that has lost electrons.
 - D) ___ If it is attracted to a proton.
 - E) ___ If it gains electrons.
 - F) ___ If it is repelled by an electron.
5. What does this symbol mean? 
6. If a person is insulated from ground by standing on books, do they get shocked when touching the Van de Graff?
7. Attract or repel?
 - A) ___ Two positive charges?
 - B) ___ A positive and a negative charge?
 - C) ___ Two electrons?
 - D) ___ Two neutral objects?
 - E) ___ A 4.5C charge and a 2.2C charge?
8. If these are repelling, find the unknown charge.  

9. When two protons are close to each other,
 - A) Do they attract or repel each other?
 - B) When they are moved even closer, does the electric force get stronger or weaker?
 - C) How are protons able to touch each other in the nucleus of an atom?
10. If you decrease the amount of charge, does the electric force increase or decrease?
11. How is an insulator charged?
12. What do we call the spark of electricity between two objects?
13. If you touch a charged object to ground, what happens?
14. An object has a charge of 2.3 C.
 - A) Is it positive or negative?
 - B) Did it gain or lose electrons?
 - C) If you touch it to ground do electrons come from ground or go to ground?
 - D) After you touch ground, what will its charge be?
15. Two objects have different amounts of charge.
 - A) Do they feel a force between them?
 - B) If brought close, will electrons move?
16. As the difference of charge gets bigger between two object, can electricity jump a bigger or smaller gap?
17. Two charged objects are moved closer together, does the electric force increase (get stronger) or decreases (get weaker)?

HW Unit 9:2