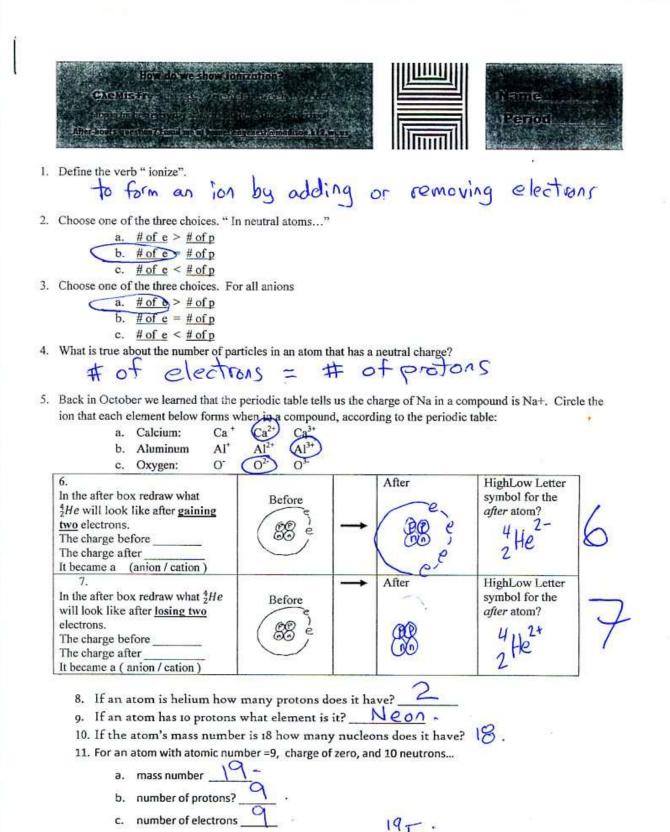
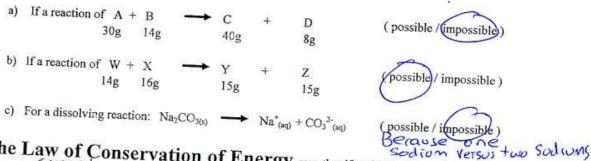


should say: "electronegativity is how hard an element pulls an electron if the electron is shared between two elements"

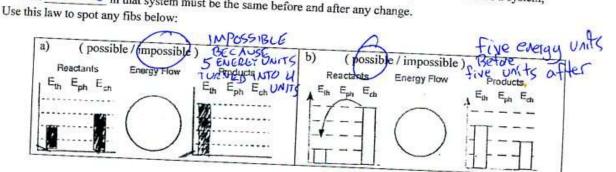


symbol of the element, with highLow numbers

12. The Law of Conservation of Mass says that if nothing enters or leaves a system, the total MASS in that system must be the same before and after any change. Based on this Law, mark the following as possible or not:

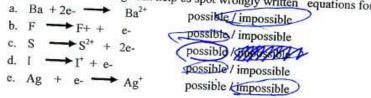


13. The Law of Conservation of Energy says that if nothing enters or leaves a system, the total ENERGY in that system must be the same before and after any change.



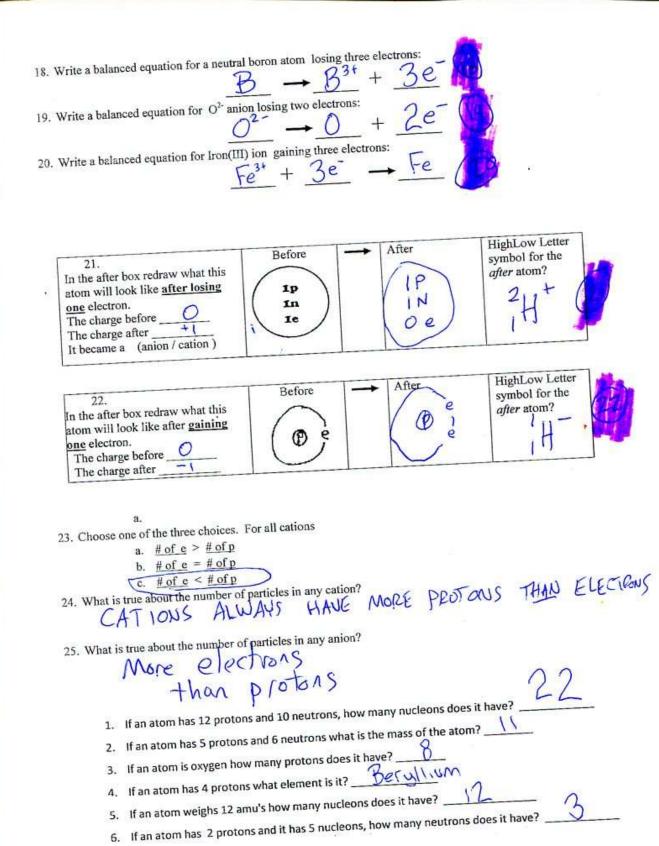
14. The Law of Conservation of Charge is similar to the two laws above. It says that if nothing enters or leaves a system, the total <u>CHARGE</u> in that system must be the same before and after any

15. The Law of Conservation of Charge can help us spot wrongly written equations for ions.



16. Write a balanced equation for neutral Mg losing two electrons (In the first blank, write Mg. You don't need to write the high low numbers, just the charge, if any):

17. Write a balanced equation for neutral chlorine atom gaining one electron: 0



7. If an atom has 40 nucleons and has 10 neutrons, how many protons does it have? 30

- 8. For an atom with 14 protons and 15 neutrons and 18 electrons
 - a. mass number
 - b. atomic number 14
 - c. number of electrons 18
 - d. symbol of the element
 - e. charge of the atom _____ 4e
 - f. symbol of the element, with highLow numbers

9. For a neutral atom with mass number of 47, 25 neutrons, and 22 electrons

- a. atomic number 🚔 22
- b. number of protons 22
- c. number of electrons 22
- d. symbol of the element, with highLow numbers

10. For an atom with mass number 55, and has 25 protons and 23 electrons

- a. charge 2+
- b. atomic number 25
- c. number of neutrons 36
- c. number of neutrons 30d. symbol of the element, with highLow numbers 25 Mm² +