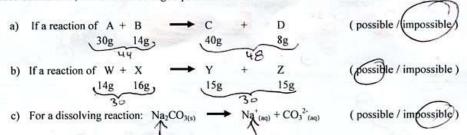
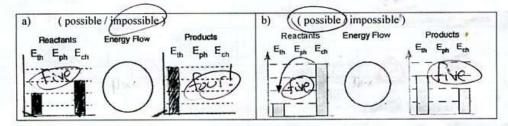


The Law of Conservation of Mass says that if nothing enters or leaves a system, the total MASS in that system must be the same before and after any change.
 Based on this Law, mark the following as possible or not:

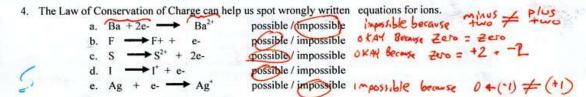


2. The Law of Conservation of Energy says that if nothing enters or leaves a system, the total system must be the same before and after any change.

Use this law to spot any fibs below:



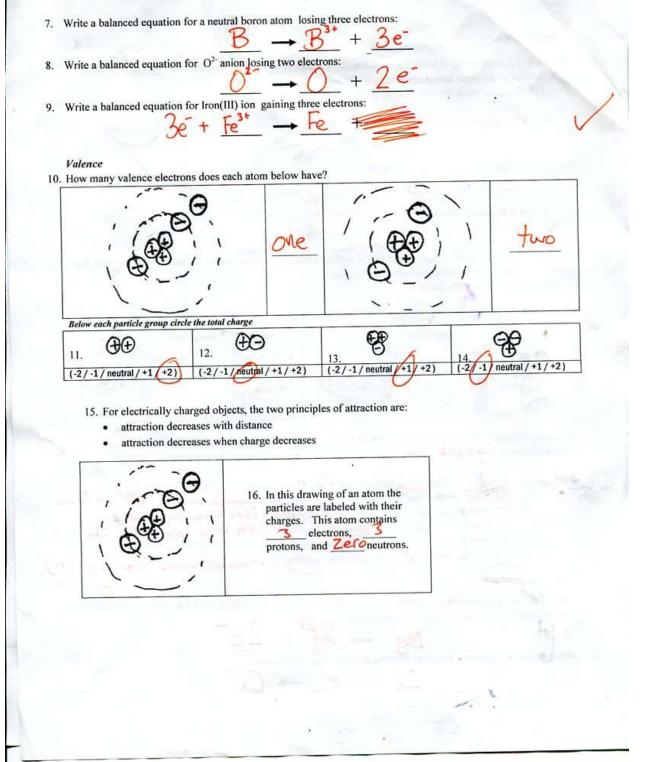
3. The Law of Conservation of Charge is similar to the two laws above. It says that if nothing enters or leaves a system, the total \_\_\_\_\_ in that system must be the same before and after any change.



5. 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):

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

$$Cl + e^- \rightarrow Cl^-$$



17. How many valence electrons does each atom below have?

ONE

ONE

TWO

18. In which situation below will attraction be stronger? ( A / B / no difference )	19. In which situation below will attraction be stronger? (A) B / no difference )
Stronger? (A B) to dame	(a) (D) (C)
a) O	₩ <b>€⊕</b>
20. In which situation below will attraction be stronger? (A / B / no difference)	21. In which situation below will attraction be stronger? (A/B/no difference
O C	<b>9</b> 0
a) 😥 🕞	9 <del>9</del> 0

22. To remove an electron from an atom we have to pull hard enough to overcome the attraction of the atom's nucleus. On the two atoms below, which has a valence electron that is easiest to remove? (A/B)

