Naming and Balancing Review

Friday, October 20, 2017 6:52 AM

Chemical Reactions and Compounds SKILLS REVIEW

- What Law is the reason you have to balance chemical reactions? Law of consuration of matter Ū
 - -Explain HOW you go about balancing reactions.

 (1) Write out all elements (leave polyatomic ions byether if possible)

 (2) Count and have many of each in the reactants of products

 (3) Bolonce by adding coefficient in front of compands. Leave Organ Forlast

 (1) Recount the atoms every time you add a Coefficient

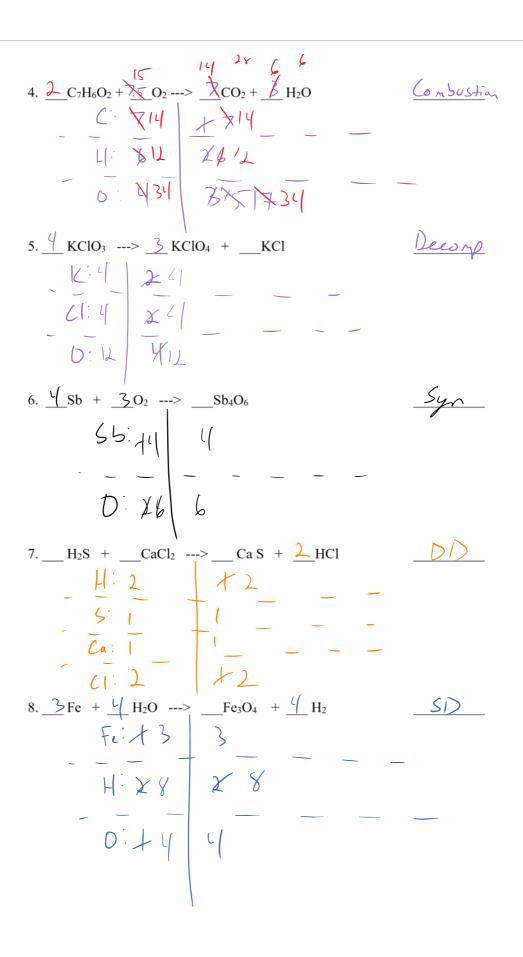
 - -What are the types of reactions? AND how do you recognize each one?

For each reaction: Identify the type of reaction and balance it

1. $S_8 + 1 C_2 - S_8 SO_3$

1.
$$S_8 + 1 \subset O_2 \longrightarrow 8 \subset S_1$$

2. $\mathcal{L}_{HgO} \longrightarrow \mathcal{L}_{Hg} + \mathcal{L}_{O_2}$



-How do you name: Ionic formulas (D Nome 1st clement (D Nome) of clement L7 If its nonetamic, chape conding to -ide	Covalent formulas (1) Write rume of 1st element using a numurical Prefix for its subscript (2) Write rume of 2nd element using a numurical Prefix for its subscript + change its Ending to -ide
-What does the name of second elen	nent always end in? - it its months.
-Name the prefixes? 1 2 3 1/ 5 now Di Tri Tetra Perta	Wexa Hepla lock none deca
-How do you make formulas for: Ionic	
O Cross the cherps	De Change the prefixes +
@ reduce if possible	Subesipts. Do Not cross cherges chera of a transition meta
-What's the significance of roman numerals	Do Not cross cherges
For each of the chemical compounds: Identify the	
For each of the chemical compounds. Identify the	te type and the name/formula
Give the chemical name for:	Give the chemical formula for:
Give the chemical name for: 1) Li ₃ N _ C+Li cm Ni Li M	Give the chemical formula for: 6) Beryllium oxide
1) Li ₃ N <u>Cithian Nitside</u> 2) SeCl ₂ <u>Sclenium Dicharid</u>	6) Beryllium oxide Be O
1) Li3N Cthicm NitriM	6) Beryllium oxide <u>Be O</u>
1) Li ₃ N <u>Cithian Nitside</u> 2) SeCl ₂ <u>Sclenium Dicharid</u>	6) Beryllium oxide Be O 7) Silicon tetrabromide Si Br
1) Li ₃ N Cthicm NitsiM 2) SeCl ₂ Sclenium Dicharid 3) Ga ₂ S ₃ Galicy Sulfid	6) Beryllium oxide Be O 7) Silicon tetrabromide Si Br

-How do you identify compounds as **Ionic** or **Covalent**?

<u>IV)</u>

Compound and Reaction Concepts Review

hort Answer

- When nickel combines with fluorine to form nickel (III) fluoride, the charge of the nickel ion is
- The covalent compound P2O5 would be named D, plus phorous Pet 0 x in
- Give the mole ratio for the following equation: 1.9:1:1 $Cu + 2HF \rightarrow CuF_2 + H_2$.
- A type of reaction that produces an increase in temperature is
- What coefficient is missing in $C_2H_4 + (?)O_2 \rightarrow 2CO_2 + 2H_2O?$
- What occurs in an endothermic reaction but not in an exothermic reaction?
- The characteristics of Covalent bonds are... Share eletrans; Non- Conductive
- The overall charge in a compound must be ______
- The chemical formula for an ionic compound of aluminum and bromine is AIBr >
- 0. In which type of bond do atoms share electrons? Covalet
- 1. Often atoms join so that each atom will have we choy of full outer energy lens
- 2. A synthesis reaction is a reaction between at least two compounds in which they form one New Compound
- 3. What are the signs of a chemical reaction? Color (hup) fizz/foom) New substraction Chape in temp
- 4. In a balanced chemical reaction, the total mass of the products always equals the <u>Mass</u> of

 5. The characteristics of an ionic bond are... knowfor electrons's conductive authors.
- 6. A release of energy is a sign that
- 7. The substances that are formed in a chemical reaction are called the ρ ro μ \leq \leq
- 8. Atoms sometimes form bonds to become stable of rentral
- 9. Oxygen atoms have six electrons in their outer shells. When two oxygen atoms bond, they will form a(n) to bond by their electrons.
 - 0. Sodium has one electron in its outer shell and chlorine has seven electrons in its outer shell. The atoms will form a(n) _____ bond by ____ their electrons.

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