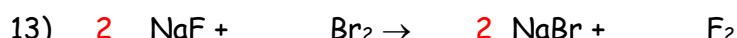
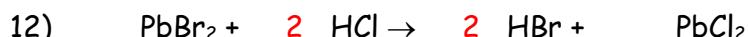
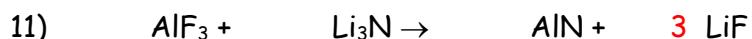
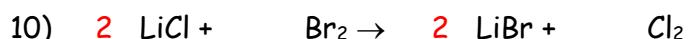
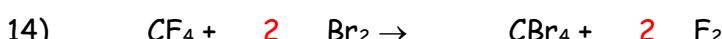
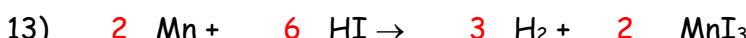
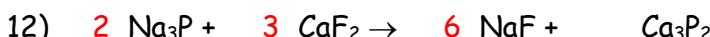
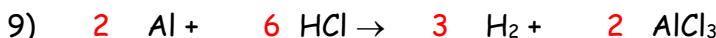
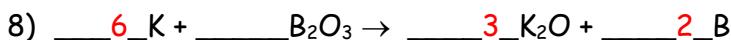
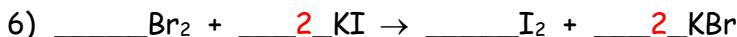
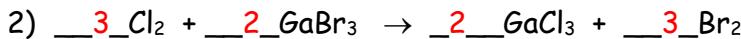
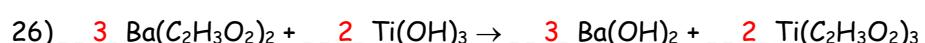
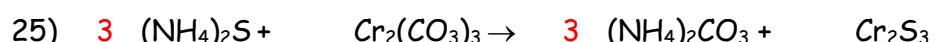
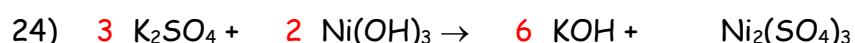
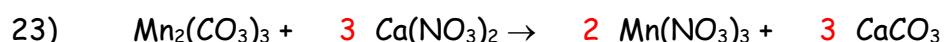
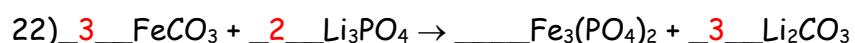
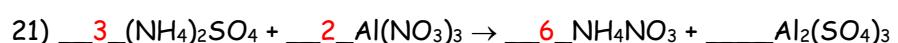
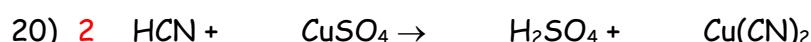
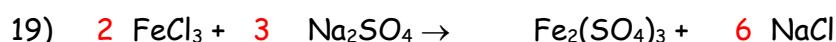
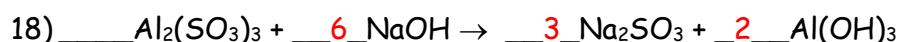
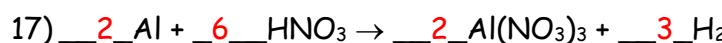
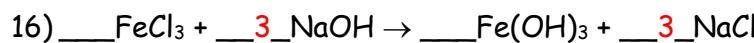
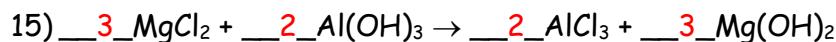
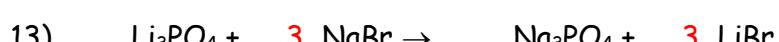
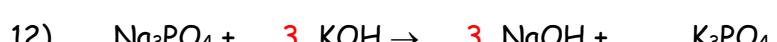
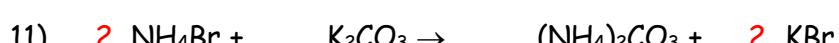
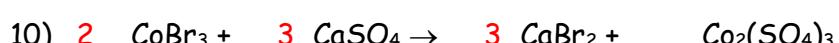
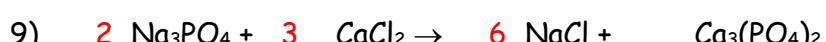
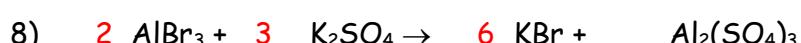
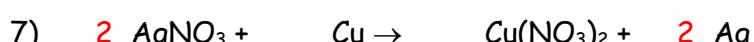
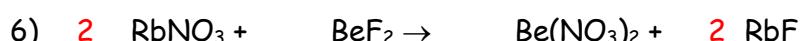
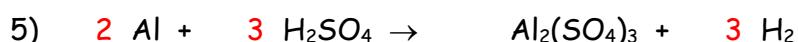
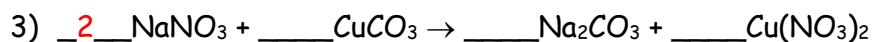
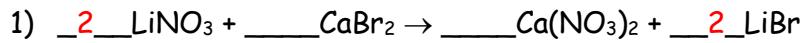


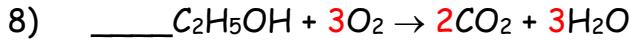
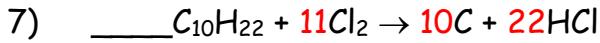
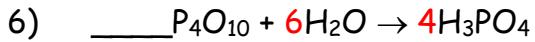
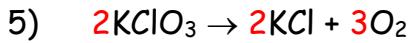
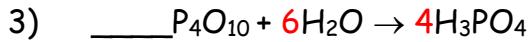
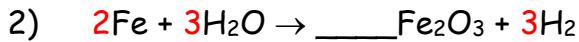
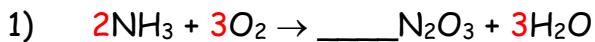
Balancing Equations Practice #1 - Simple CoefficientsBalancing Equations Practice #2 - Lowest Common Factor

Balancing Equations Practice #3 – Polyatomic Ions

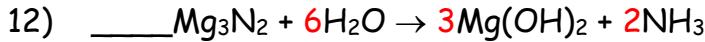
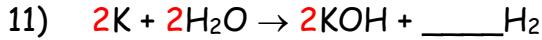
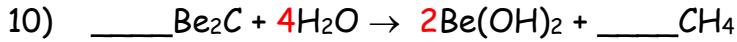
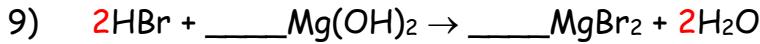


Balancing Equations Set #4: Challenging Problem Solving Themes

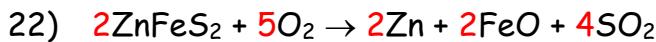
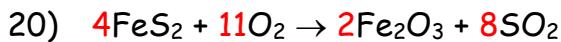
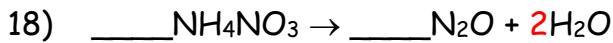
Relatively Easy: no difficult themes or simple multiples



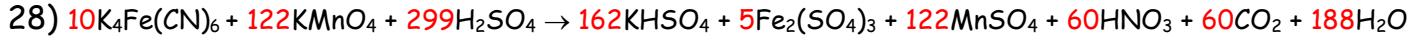
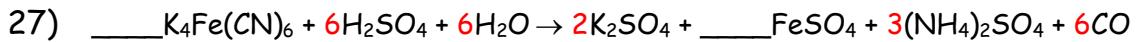
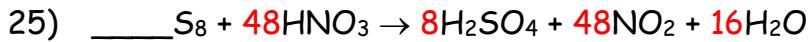
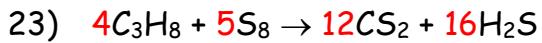
Relatively Easy: Writing H₂O as H(OH)



Medium Difficulty: use of multiples or determining which element to start with



Hard: equations with few patterns if student has no knowledge of redox reactions



Double Replacement Practice (PreIB) Name _____

Write the general form of a double replacement reaction: $\text{AB} + \text{CD} \rightarrow \text{AD} + \text{CB}$

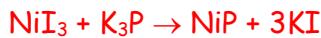
1) Sodium bromide + calcium nitride \rightarrow



2) Aluminum phosphide + lithium oxide \rightarrow



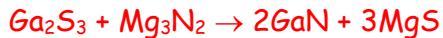
3) Nickel (III) iodide + potassium phosphide \rightarrow



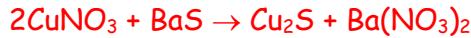
4) Magnesium oxide + sodium phosphide \rightarrow



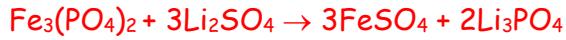
5) Gallium sulfide + magnesium nitride \rightarrow



6) Copper (I) nitrate + barium sulfide \rightarrow



7) Iron (II) phosphate + lithium sulfate \rightarrow



8) Strontium carbonate + ammonium phosphide \rightarrow



Synthesis and Decomposition Reactions

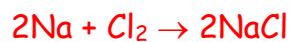
Name: _____

- 1) What are the seven diatomic elements? Br I N Cl H O F
- 2) When do you put a "2" as a subscript with a diatomic element?
When the element is by itself and not bonded to other elements.

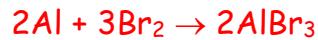
Synthesis

Write the general equation for a synthesis reaction: A + B → AB

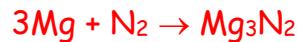
- 3) Sodium + chlorine →



- 4) Aluminum + bromine →



- 5) Magnesium + nitrogen →



Decomposition

Write the general equation for a decomposition reaction: AB → A + B

- 6) Lithium nitride →



- 7) Aluminum fluoride →



- 8) Copper (II) oxide →



- 9) Water →



Chap 9: Review for Quiz (PreIB) Name: _____

Double Replacement General formula: $AB + CD \rightarrow AD + CB$

1) Calcium nitride + lithium bromide \rightarrow



2) Ammonium sulfide + magnesium oxide \rightarrow

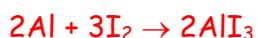


3) Iron (III) chloride + potassium sulfate \rightarrow

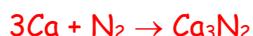


Synthesis General formula: $A + B \rightarrow AB$

4) Aluminum + iodine \rightarrow



5) Calcium + nitrogen \rightarrow



Decomposition General formula: $AB \rightarrow A + B$

6) Strontium oxide \rightarrow



7) Sodium chloride \rightarrow



Single Replacement General formula: $AB + C \rightarrow AC + B$

8) Chlorine + Aluminum iodide \rightarrow



9) Sodium + Magnesium phosphide \rightarrow



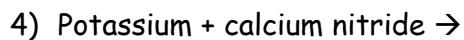
Activity Series	
Activity of Metals	Activity of Halogens
most reactive	
Li	F ₂
K	Cl ₂
Ba	Br ₂
Ca	I ₂
Na	
Mg	
Al	
least reactive	

Single Replacement Practice (PreIB) Name _____

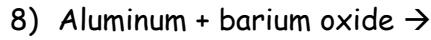
Write the general form of a single replacement reaction: $AB + C \rightarrow AC + B$



No reaction (*Calcium has a lower activity than potassium*)



No reaction (*Iodine has a lower activity than bromine*)



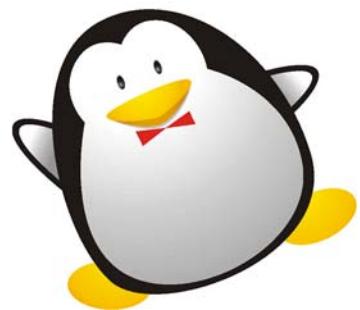
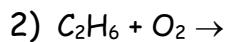
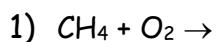
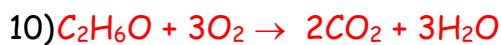
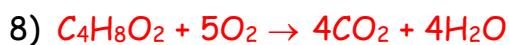
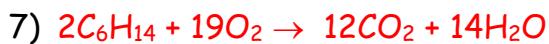
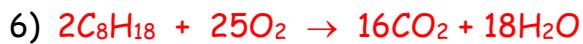
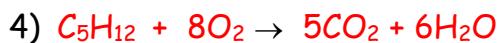
No reaction (*Aluminum has a lower activity than barium*)



Activity Series	
Activity of Metals	Activity of Halogens
	most reactive
Li	F ₂
K	Cl ₂
Ba	Br ₂
Ca	I ₂
Na	
Mg	
Al	
	least reactive

Combustion Fun!

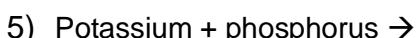
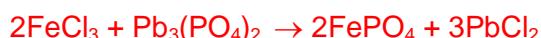
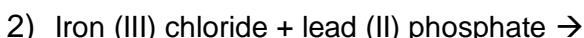
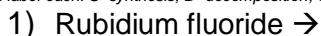
Name: _____

Complete with the video:The general form of a combustion reaction is: $C_xH_y + O_2 \rightarrow CO_2 + H_2O$ **Complete on your own:**

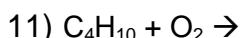
Ch 9: Mixed Review (PreIB)

Name: _____

Solve & label each: S=synthesis, D=decomposition, SR=single rep, DR=double rep, Comb=combustion



No reaction



Activity Chart	
Li	strong
K	
Ba	
Ca	
Na	
Mg	
Al	
	weak
F ₂	
Cl ₂	
Br ₂	
I ₂	