

Decomposition Reactions  
Practice for Proficiency

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Objective: Can you predict and accurately write out the products of a decomposition reaction

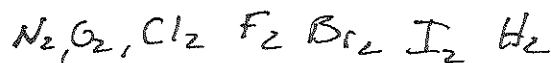
\*Note: We are only using decomposition reaction to decompose to natural elemental forms.  
(Diatomic elements will be provided if they naturally occur)

1. Key ideas to keep in your mind

a. Write out the template:  $XY \rightarrow X + Y$

b. When writing ionic compounds, remember to? *Charge Balanced*

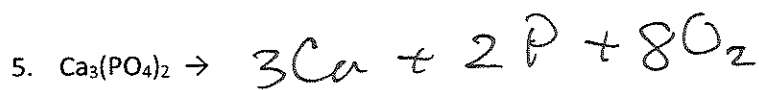
c. What are the 7 elements that come as pairs (diatomic).



For the following problems please predict the products and balance.



3. Aluminum Fluoride  $\rightarrow$



6. Barium iodide



7. Iron (II) Oxide



8.  $CH_4$  (methane) decomposing to elements.

