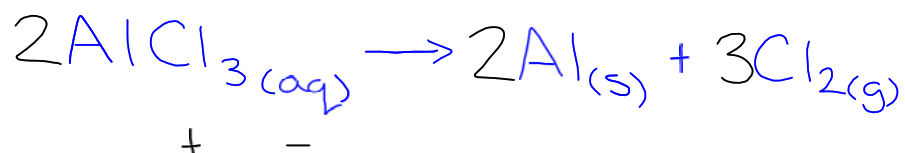


## Lesson 12: Decomposition Reactions

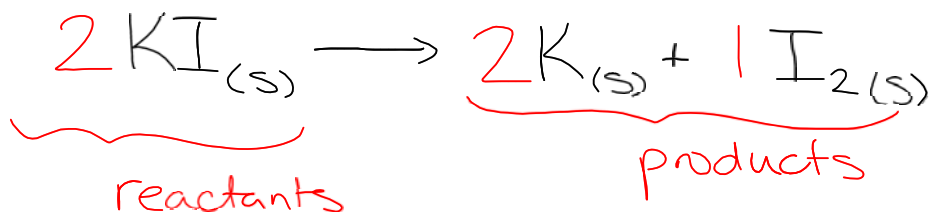
- A compound is broken down to its elements
- A difficult process that can require special equipment
- Compound  $\rightarrow$  element + element

Ex.) Write and balance the following decomposition reactions:

1. Aluminium chloride to aluminium and chlorine

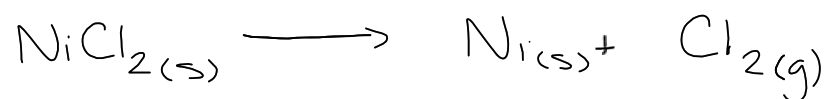


2. Solid potassium iodide to potassium and iodine



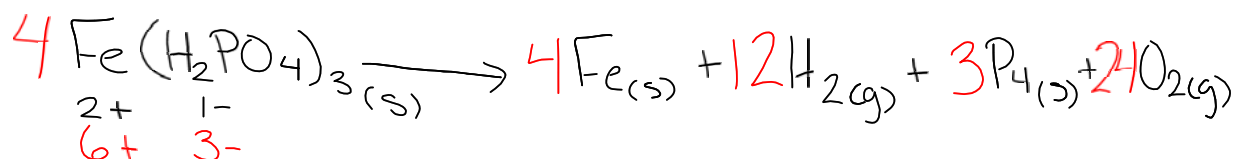


3. Solid nickel (II) chloride to nickel and chlorine gas

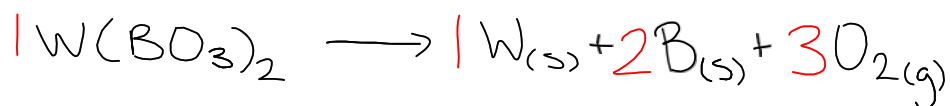


4. Iron(III) dihydrogen phosphate decomposes into its elements

$$\text{LCM}(3,4)=12$$



5. Tungsten borate decomposes to its elements



Worksheet