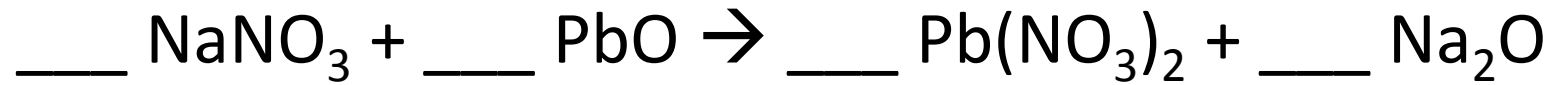


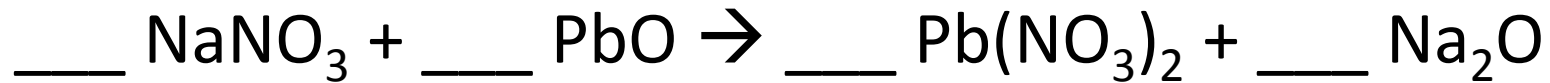
# Balancing Chemical Equations

Balance the chemical reaction:



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Balance the chemical reaction:



Step 1. Write out coefficients



Step 2. Construct the atom equations:

$$\text{Na: } a = 2y$$

$$\text{N: } a = 2x$$

$$\text{O: } 3a + b = 6x + y$$

$$\text{Pb: } b = x$$

# Balancing Chemical Equations

Step 3: Set an initial condition

Na:  $a = 2y$ ,  $a = 2$ , then  $x = 1$  and  $y = 1$ , finally  $b = 1$

N:  $a = 2x$

O:  $3a + b = 6x + y$

Pd:  $b = x$

Therefore, the balanced equation is:

