## Labs: Balanced Chemilcan Equalfion Models

In this lab, you will create models of 4 simple chemical equations. After creating the models, you will draw the colored model in the large box. Under the box, you will identify amounts of reactants and products.

Sample: $2 \mathrm{H}_{2}+\mathrm{O}_{2} \rightarrow 2 \mathrm{H}_{2} \mathrm{O}$


## Reactants

\# of Hydrogens in Reactants $\qquad$
\# of Oxygens in Reactants $\qquad$ _

Products
\# of Hydrogens in Products $\qquad$
\# of Oxygens in Products $\qquad$

Station 1: $\mathrm{N}_{2}+3 \mathrm{H}_{2} \rightarrow 2 \mathrm{NH}_{3}$


Reactants
\# of Nitrogens in Reactants $\qquad$
\# of Hydrogens in Reactants $\qquad$

## Products

\# of Nitrogens in Products $\qquad$
\# of Hydrogens in Products $\qquad$

Station 2: $\mathrm{CH}_{4}+2 \mathrm{O}_{2} \rightarrow \mathrm{CO}_{2}+2 \mathrm{H}_{2} \mathrm{O}$


Reactants
\# of Carbons in Reactants $\qquad$
\# of Hydrogens in Reactants $\qquad$
\# of Oxygens in Reactants $\qquad$

## Products

\# of Carbons in Products $\qquad$
\# of Hydrogens in Products $\qquad$
\# of Oxygens in Products $\qquad$
Station 3: $\quad 2 \mathrm{H}_{2} \mathrm{O}_{2} \rightarrow 2 \mathrm{H}_{2} \mathrm{O}+\mathrm{O}_{2}$


## Reactants

## Products

\# of Oxygens in Products $\qquad$
\# of Hydrogens in Reactants $\qquad$ \# of Hydrogens in Products $\qquad$
Station 4: $\quad 4 \mathrm{Fe}+3 \mathrm{O}_{2} \rightarrow 2 \mathrm{Fe}_{2} \mathrm{O}_{3}$


Reactants
\# of Irons in Reactants $\qquad$
\# of Oxygens in Reactants $\qquad$

Products
\# of Irons in Products $\qquad$
\# of Oxygens in Products $\qquad$

