

New HTML5 Balancing Chemical Equations ... - PhET
phet.colorado.edu/.../new-html5-balancin... University of Colorado Boulder
Sep 8, 2014 - Try the new HTML5 Balancing Chemical Equations simulation! How do you know if a chemical equation is balanced? What can you change to ...

CLICK!

Part 1 Directions: Choose "Introduction"

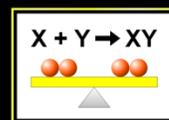
Select "Make Ammonia" and choose one of the balancing tools.

Make each coefficient "1" to see molecules.

Change coefficients until the reaction is balanced.
Repeat for water and methane.



Balancing Chemical Equations



Introduction

Make Ammonia

Tools: [None] [None] [None]

$1 \text{ N}_2 + 1 \text{ H}_2 \rightarrow 1 \text{ NH}_3$

Draw pictures of balanced reactions and fill in the coefficients.

1.

$\square \text{ N}_2 + \square \text{ H}_2 \rightarrow \square \text{ NH}_3$

Make Ammonia

2.

$\square \text{ H}_2\text{O} \rightarrow \square \text{ H}_2 + \square \text{ O}_2$

Separate Water

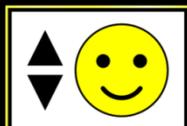
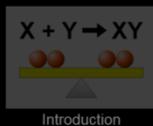
3.

$\square \text{ CH}_4 + \square \text{ O}_2 \rightarrow \square \text{ CO}_2 + \square \text{ H}_2\text{O}$

Combust Methane

Part 2: Balancing Chemical Equations

Choose Your Level



Game


Directions:
2A
2B
Game: Level 1

Fill in the table and include the correct formulas. Play for time after first time.

	Reactants	→	Products	Best time
#1				
#2				
#3				
#4				
#5				

Game: Level 2

Fill in the table and include the correct formulas. Play for time after first time.

	Reactants	→	Products	Best time
#1				
#2				
#3				
#4				
#5				

Game: Level 3

Fill in the table and include the correct formulas. Play for time after first time.

	Reactants	→	Products	Best time
#1				
#2				
#3				
#4				
#5				