

## BALANCING CHEMICAL EQUATIONS

Load the simulation *Balancing Chemical Equations*. This link is in your JupiterGrades messages <http://phet.colorado.edu/en/simulation/balancing-chemical-equations>

### CRITICAL THINKING QUESTIONS

REVIEW:

MOLECULES: A GROUP OF ATOMS BONDED TOGETHER

ATOMS: THE BASIC UNIT OF A CHEMICAL ELEMENT

- Explore the *Balancing Chemical Equations* simulation. Discuss with your group what you find.
  - What are the tools you can use in the simulation to tell you when an equation is balanced?  
Scale or bar graph

- For each balanced reaction, indicate the total number of molecules in the table below.

Reaction	Total Number of Molecules	
	Reactant Side (Left)	Product Side (Right)
Make Ammonia	4	2
Separate Water	2	3
Combust Methane	3	3

- Is the number of total molecules on the left side of a balanced equation always equal to the number of total molecules on the right side of the equation? Explain your answer.  
No because the atoms rearrange in a chemical reaction to form new molecules.

- For each balanced reaction, indicate the total number of atoms in the table below.

Reaction	Total Number of Atoms	
	Reactant Side (Left)	Product Side (Right)
Make Ammonia	8	8
Separate Water	6	6
Combust Methane	9	9

- Is the number of total atoms on the left side of a balanced equation always equal to the number of total atoms on the right side of the equation?  
Yes
- What is the same on the left and right side of a balanced equation? Explain your answer.  
The numbers are all the same because they're balanced.
- As a group, play level 1 of the balancing equation game. Write down the strategies your group uses to balance chemical equations.

# Guided Inquiry Balancing Chemical Equations

**Vu, Phu, Fredrickson, Scott, Moore, Carl**

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