

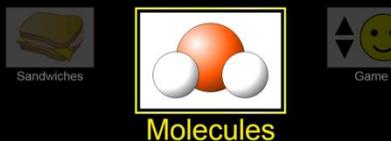
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Reactants, Products and Leftovers 1.1.4 - PhET
<https://phet.colorado.edu/.../reactants-prod...> University of Colorado Boulder
 Reactants, Products and Leftovers Sandwiches Molecules Game. Reactants, Products and Leftovers Sandwiches Molecules Game.

Reactants, Products and Leftovers



Part 2 Directions: Choose "Molecules"

2A. Select type of molecule to build and choose one

- Make Water
- Make Ammonia
- Combust Methane

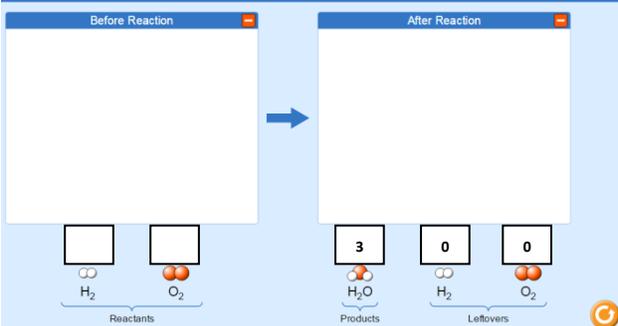
of the balancing tools.

2B. Make each coefficient "1" to see reactants.

2C. Change coefficients until there are no leftovers.

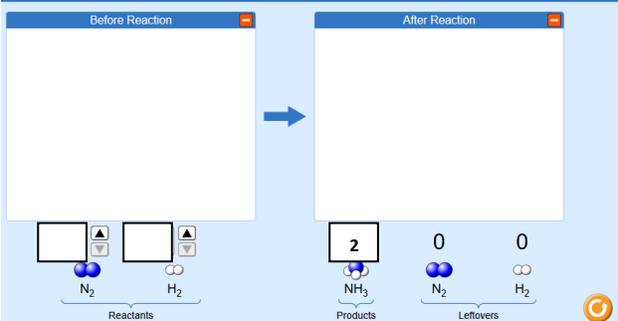
2D. Make 4 waters, no leftovers. Draw.

- Make Water
- Make Ammonia
- Combust Methane

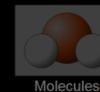


2E. Make 2 NH₃'s, no leftovers. Draw.

- Make Water
- Make Ammonia
- Combust Methane



Reactants, Products and Leftovers



Part 1 Directions: Choose "Sandwiches"

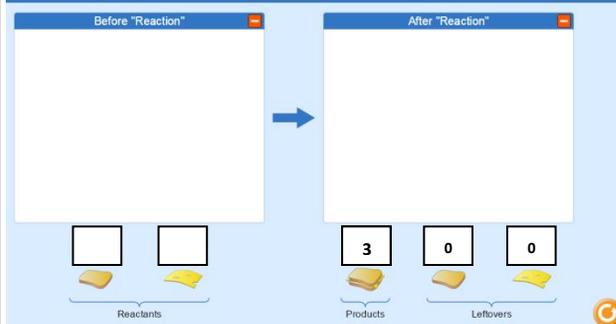
1A. Select type of sandwich to build and choose one of the balancing tools. Cheese

1B. Make each coefficient "1" to see reactants.

1C. Change coefficients until there are no leftovers.

1D. Make 3 sandwiches, no leftovers.

- Cheese
- Meat and Cheese
- Custom

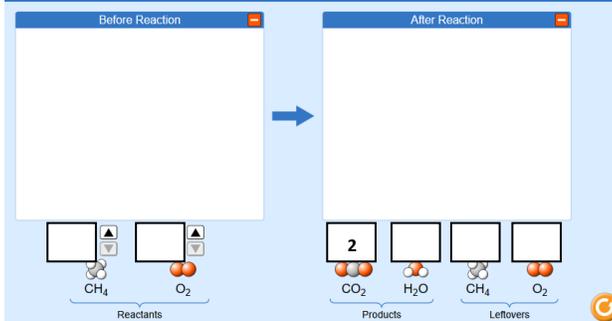


1E. Draw pictures of reactants and products and add coefficients for three sandwiches, no leftovers.

1E. What is the relationship between bread and cheese?

2F. Make 2 CO₂'s, no leftovers. Draw.

- Make Water
- Make Ammonia
- Combust Methane



Part 2 Question: What is the key to getting no leftovers?

Part 3

Reactants, Products and Leftovers

 Sandwiches
 Molecules
 Game

Directions: 3A

Choose Your Level

 Level 1
 ? → ●
 ★★★★★

 Level 2
 ●● → ?
 ★★★★★

 Level 3
 ●●● → ??
 ★★★★★

 Show All
 Hide Molecules
 Hide Numbers

3B

3C

Game: Level 1

Fill in the chart and include the correct formulas, no leftovers. Play for time after first time.

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

Game: Level 2

Fill in the chart and include the correct formulas, no leftovers. Play for time after first time.

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

Game: Level 3

Fill in the chart and include the correct formulas, no leftovers. Play for time after first time.

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