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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



Molecules

**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

Before Reaction: 1  $H_2$ , 1  $O_2$

After Reaction: 3  $H_2O$ , 0  $H_2$ , 0  $O_2$

2E. Make 2  $NH_3$ 's, no leftovers. Draw.

- Make Water
- Make Ammonia
- Combust Methane

Before Reaction: 1  $N_2$ , 3  $H_2$

After Reaction: 2  $NH_3$ , 0  $N_2$ , 0  $H_2$

## Reactants, Products and Leftovers



Sandwiches

**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

Before Reaction: 3 Bread, 0 Cheese

After Reaction: 3 Sandwiches, 0 Bread, 0 Cheese

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  $CO_2$ 's, no leftovers. Draw.

- Make Water
- Make Ammonia
- Combust Methane

Before Reaction: 1  $CH_4$ , 2  $O_2$

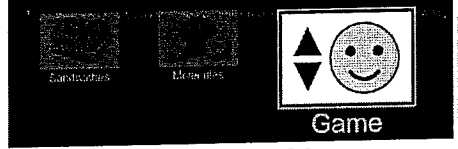
After Reaction: 2  $CO_2$ , 1  $H_2O$ , 0  $CH_4$ , 0  $O_2$

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

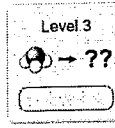
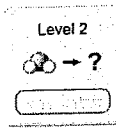
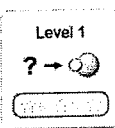
**Part 3**

Reactants, Products and Leftovers




Choose Your Level



Directions: 3A




3B

-  Show All
-  Hide Molecules
-  Hide Numbers

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				

