

① Google PHET Leftovers.html

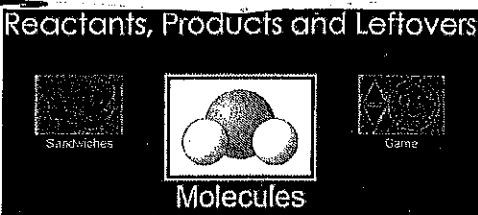
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Reactants, Products and Leftovers 1.1.4 - PhET

③ **click**



**Reactants, Products and Leftovers**

④ **Start here:**



\* **Part 1 Directions:** Choose "Sandwiches"

- 1A. Select type of sandwich to build and choose one of the balancing tools. **Cheese** (at the top)
- 1B. Make each coefficient "1" to see reactants.
- 1C. Change coefficients until there are no leftovers.

⑤ **Part 2 Directions:** Choose "Molecules"

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

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?

\* **Go to Part 2 Directions**

2E. Make 2 NH<sub>3</sub>'s, no leftovers. Draw.

**Make Water** | **Make Ammonia** | **Combust Methane**

2F. Make 2 CO<sub>2</sub>'s <sup>and 4 H<sub>2</sub>O's,</sup> no leftovers. Draw.

**Make Water** | **Make Ammonia** | **Combust Methane**

⑥ **Part 2 Question:** What is the key to getting no leftovers?

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