

Balancing Chemical Equations POGIL Activity

Background Information: Atoms Are Conserved in Chemical Reactions.

Chemical reactions are described by chemical equations. According to the Law of Conservation of Mass (Matter), atoms are neither created nor destroyed when chemical reactions take place. Therefore, the number of atoms of each element must be identical on the reactant (left) and the product (right) sides of a balanced chemical reaction.

Reaction (A)



Reaction (B)



Questions:

1. How many of each type of atom are represented on each side of the equation in reaction (A)?

	Cu	O	H
Reactant Side	1	1	2
Product Side	1	1	2

2. Does this equation (A) obey the Law of Conservation of Mass (Matter)? Explain.

Yes. Same # of each atom on each side.

3. How many of each type of atom are represented on each side of the equation in reaction (B)?

	C	O
Reactant Side	1	3
Product Side	1	2

4. Does this equation (B) obey the Law of Conservation of Mass (Matter)? Explain.

No. Oxygen is different in number on each side.

Pogil Activity For Balancing Equations

Yi-Tong Ma



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