

Balancing Chemical Equations Simulator

The **Law of Conservation of Matter** states that matter cannot be created nor destroyed. This applies to chemical equations. The number of atoms of each type of element must be equal on both sides of an equation.

Directions

1. Go to https://phet.colorado.edu/sims/html/balancing-chemical-equations/latest/balancing-chemical-equations_all.html and click on the Introduction option.
2. Using the clues from your Chemical Reactions notes balance the equations that are shown.
 - a. Note how you can only change the coefficients and not the subscripts.
 - b. Remember to start with complicated molecules first.
3. After you have done all three in the introduction go click on the Game option.
4. Start with Level 1.
5. Once the equation is balanced write down the balanced equation in the space provided.
6. Once you have done all 5 of the equations write down the score you earned for Level 1.
7. Repeat with Levels 2 and 3.

EQUATIONS:

Level 1: Score _____

1. _____

2. _____

3. _____

4. _____

5. _____

Level 2: Score _____

1. _____

2. _____

3. _____

4. _____

5. _____

Level 3: Score _____

1. _____

2. _____

3. _____

4. _____

5. _____