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for a few of these reactions have been provided, though most likely you'll be asked to provide only the standard chemical equations. Examples of 10 Balanced Chemical Equations - ThoughtCo
 Therefore, this chemical equation is a 'balanced equation'. Now, look at the following equation - $\text{Fe} + \text{H}_2\text{O} \rightarrow \text{Fe}_3\text{O}_4 + \text{H}_2$. If you notice, the number of atoms of each element are not the same on both sides of the arrow. Therefore, this is an 'unbalanced' equation. We can balance this equation using the following steps -
 Step 1
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Such an equation which has an equal number of atoms or masses of various elements on both sides of the arrow (reactants and products) is called balanced chemical equation .Let us examine chemical equation – 2 Converse to equation – 1, in equation 2 and 3, number of atoms of various elements present in reactants and products are not same.

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A balanced chemical equation occurs when the number of the atoms involved in the reactants side is equal to the number of atoms in the products side. Let's take a look at an equation representing ...

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To balance a chemical equation, enter an equation of a chemical reaction and press the Balance

button. The balanced equation will appear above. Use uppercase for the first character in the element and lowercase for the second character. Examples: Fe, Au, Co, Br, C, O, N, F. Ionic charges are not yet supported and will be ignored.

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Balanced chemical equations A balanced equation models a chemical reaction using the formulae of the reactants and products. It shows the number of units of each substance involved.

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This chemical equation balancer can help you to balance an unbalanced equation. This balancer can also help you check whether the equation is balanced or not, thus you may edit the equation and check its balance. The balancer is case sensitive. Following are some equation input format

examples: 1. $H_2 + O_2 = H_2O$ 2. $2H_2 + O_2 = 2H_2O$ 3.

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Instructions on balancing chemical equations: Enter an equation of a chemical reaction and click 'Balance'. The answer will appear below; Always use the upper case for the first character in the element name and the lower case for the second character. Examples: Fe, Au, Co, Br, C, O, N, F. Compare: Co - cobalt and CO - carbon monoxide

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Chemical equations usually do not come already balanced. Making sure they are balanced must be done before the equation can be used in any chemically meaningful way. All chemical calculations you will see in other units must be done with a balanced equation.

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Therefore, this chemical equation is a 'balanced equation'. Now, look at the following equation - $Fe + H_2O \rightarrow Fe_3O_4 + H_2$. If you notice, the number of atoms of each element are not the same on both sides of the arrow. Therefore, this is an 'unbalanced' equation. We can balance this equation using the following steps - Step I