

Warm-up:

1. Why do chemical reactions occur?

In order to improve stability

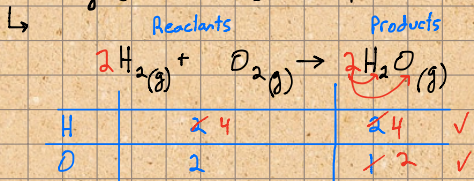
2. How is matter rearranged?

Bonds between atoms break to form new bonds

3. What are the signs of a chemical reaction?

temperature, smell, color changes, bubbles/new substance formed, etc.

• Balancing Chemical Reactions from chemical Eqs:

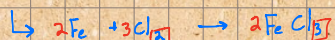


Tips:

① Never change a subscript in a formula → H_2O_x

② Balance Eqs by changing coefficients → $2\text{H}_2\text{O}$

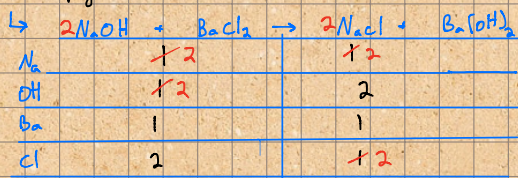
③ When an element has different subscripts, multiply them to get the total # of atoms needed



$2 \times 3 = 6 \text{ total Cl's}$

④ Balance Elements that appear alone last

⑤ Balance polyatomic ions as a combined unit



Now You Try!

