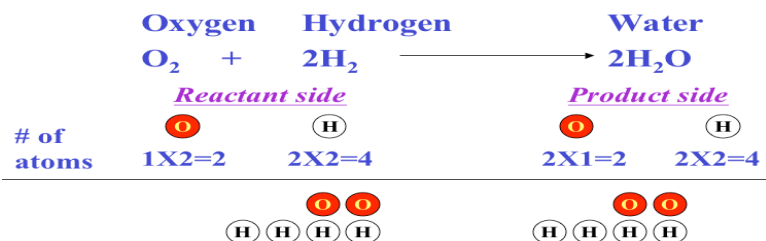


### Balancing Chemical Equation



• Now it is **balanced**.

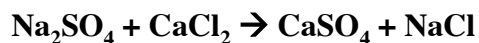
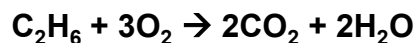
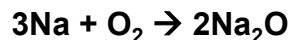
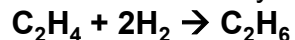
#### MORE EXAMPLES:



#### Balancing equations Practice

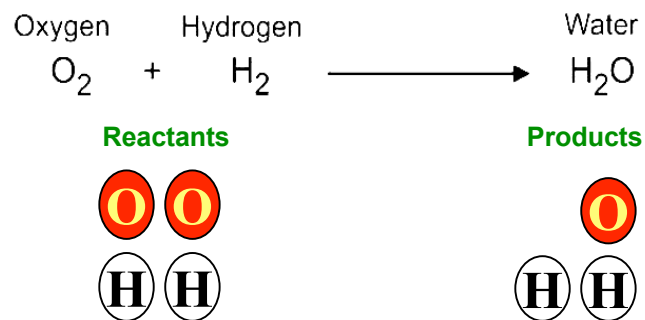
Are the following chemical equations balanced? Show your work by counting up atoms of each element on reactant and product side.

\* extra credit for correctly balancing the unbalanced ones!!

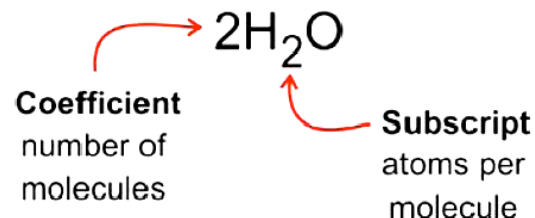


### Notes: Chemical Equations

- A **chemical equation** is an abbreviated way to show the exact numbers of atoms and compounds in a chemical reaction.
- The arrow shows the direction the reaction goes, from reactants to products.



• Since there is one more oxygen atom on the reactant side than there is on the product side, the reaction equation is **not balanced**.



• **Total # of each atom = Coefficient X Subscript**

- Total # of H atoms in this molecule:  $2 \times 2 = 4$

- Total # of O atoms in this molecule:  $2 \times 1 = 2$