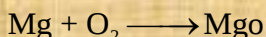


Chapter 01

CHEMICAL REACTIONS & EQUATIONS

Writing a chemical equation:

- The shorter way of representing a chemical reaction is to use symbols and chemical formula instead of words.
- Burning of magnesium to give magnesium oxide can be written as



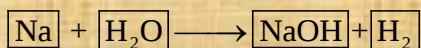
- Above equation is known as skeletal equation.

Balanced Chemical Equation:

- According to law of conservation of mass “mass can neither be created nor destroyed” during a chemical reaction.
- Hence, the no. of atoms of each element remains same before and after the reaction.
- Follow these steps to balance the chemical reaction.



Step-1: Draw boxes around each formula do not change anything inside the boxes while balancing.



Step-2: Find the no. of atoms of different elements present on both sides of arrow mark.

Element	No of atoms of reactants	No of atoms of products
Na	1	1
H	2	3
O	1	1

Step-3: Start balancing with the compound containing large no of atoms.



Step-4: Write physical states of reactions and products.

