

Homework :-

⇒ ① Give five major differences between elements and compounds?

Ans:
✓

Elements	Compounds
* Pure substances which are composed of one type of atoms is called as elements.	* When two or more elements chemically combined with each other with a definite Ratio by mass, forms compound.
* Elements cannot be broken down into any other substance.	* Compounds can only be separated through chemical reaction.
* On depending upon their metallic character, they can be characterised under metals, non-metal & metalloid.	* Based upon burning nature, we can find mainly two types of compounds i.e., ionic and Co-valent compound.
* Elements are represented by symbols or. Eg - Na, O ₂ ...	* Compounds are represented by their chemical formula. eg:- $Mg + O_2 = MgO$.
* Eg = H ₂ , Chlorine (Cl), Iron (Fe), Gold (Au) ...	* Eg = NaCl, MgCO ₃ , ZnO, H ₂ O ...

② Why we say H_2O is a compound but H_2 and O_2 are elements?

Ans:- H_2 and O_2 are elements because it contains same type of atom while H_2O is compound because it is made when two elements (Hydrogen [H], oxygen [O]), combined with each-other in a definite ratio by mass.