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06/07/21.

1. Give 5 major differences between elements and compounds.

Ans →

### Elements

- They are made up of one kind of atoms.
- They cannot be broken down into simpler substances by any physical or chemical method.

### Compounds

- They are made up of 2 or more kinds of atoms.
- They can be broken down into simpler substances by chemical methods.

- They have their own set of properties.

- It is represented by symbols.

- Ex - Hydrogen (H), Gold (Au), Silver (Ag) etc.

- Properties of a compound differ from those of their elements.

- It is represented by chemical formula which contains symbols of its elements.

- Ex - Water ( $H_2O$ ), Sodium chloride (NaCl) etc.

2. Explain, why we say  $H_2O$  is a compound but  $H_2$  and  $O_2$  are elements?

Ans  $\Rightarrow$   $H_2O$  is a compound as it contains 2 kinds of atoms i.e. Hydrogen and oxygen. But  $H_2$  and  $O_2$  are elements because they are only one atom.