

- However, the mass of ^{12}C is larger than ^{13}C . This is because ^{13}C has one more electron.
 $\therefore$ They have different physical properties.

Isotopes

- An isotope is an element whose atomic number is the same but the mass number (number of protons) is different.
- Isotopes only have different number of neutrons.

The number of protons and electrons is the same

Ex:- Isotopes of Cl

Isotope	Symbol	No. of Protons	No. of Neutrons	No. of electrons
Chlorine-35	$^{35}_{17}\text{Cl}$	17	18	17
Chlorine-37	$^{37}_{17}\text{Cl}$	17	20	17

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