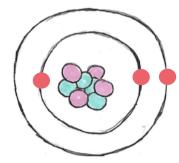
# e compounds



a proton has virtually the same mass as a neutron, of 1. On electron has negligible mass of about 1/1836th of the mass of a proton. A proton has a charge of 1+, whilst an electron has a charge of 1-, and a neutron has a charge of O/neutral.

Every atom of the same element contains the same number of protons. Different elements contain atoms that have different numbers of protons. The periodic table lists elements in order of the number of protons in the nucleus, known as the atomic number.

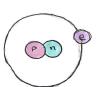
## isospes

Hydrogen Isotopes



Hydrogen-1

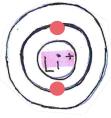
Every atom of an element has the same number of protons. Unlike protons, the number of neutrons in an atom of an element can be different — this creates isotopes.



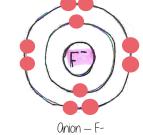
Hydrogen-2 There may be small differences in physical properties with mal on isotopes of an element

## atomic structure of ions

On ion is a charged atom. The number of electrons is different from the number of protons. Cations have an overall positive charge. Onions have an overall negative charge



Cation-Li+



### relative mass

Relative mass (atomic), Or, is the weighted mean mass of an atom of an element compared with 1/12th of the mass of an atom of carbon-12.