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Periodic Table with Masses and Numbers

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Key words

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element
periodic table

Atomic mass

- The atomic mass of an element is the average of the relative masses of its isotopes. It provides the relative mass of an "average" atom of that element, which is useful for calculations.
- The atomic mass is expressed by the symbol A_r .
- The atomic mass of an isotope is its mass relative to the isotope carbon-12.
- The atomic mass of an isotope is the sum of the protons and neutrons in its nucleus.
- The atomic masses of the elements are presented below the atomic mass on the periodic table at right.

Atomic number

- The atomic number of an element is the number of protons in its nucleus.
- The atomic number is usually represented by Z .
- The number of electrons in the nucleus of an isotope is $A_r - Z$.
- The atomic numbers of the elements are presented above the elements on the periodic table at right.

Periodic table with masses and numbers

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