

Periodic Table Key

- ◆ Atomic weights enclosed by brackets are weights of the most important or longest-lived isotope of radioactive elements.
- ◆ Elements with no symbol (110-112, 114, 116) have not yet been named.
- ◆ Group labels 1, 2, 3, etc. are recommended by the International Union of Pure and Applied Chemistry; the labels 1A, 2A, 3B, etc. are more common American usage.
- ◆ Elements with black font are those that are solid at STP (standard temperature, 0° C, and standard pressure, 1 atm), red elements are those that are liquid at STP, green elements are those that are gaseous at STP, and white elements are those that are synthetically prepared elements.
- ◆ Background colors designate the following: **Alkali metals**, **alkaline earth metals**, **transition metals**, **rare earth metals**, **noble (rare) gases**, **halogens**, **metalloids**, **other metals**, and **other nonmetals**.

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|-------------|----|-------------|----|-------------|----|---------------|----|------------|----|
| Actinium | Ac | Cobalt | Co | Iridium | Ir | Oxygen | O | Silver | Ag |
| Aluminum | Al | Copper | Cu | Iron | Fe | Palladium | Pd | Sodium | Na |
| Americium | Am | Curium | Cm | Krypton | Kr | Phosphorus | P | Strontium | Sr |
| Antimony | Sb | Dubnium | Db | Lanthanum | La | Platinum | Pt | Sulfur | S |
| Argon | Ar | Dysprosium | Dy | Lawrencium | Lr | Plutonium | Pu | Tantalum | Ta |
| Arsenic | As | Einsteinium | Es | Lead | Pb | Polonium | Po | Technetium | Tc |
| Astatine | At | Erbium | Er | Lithium | Li | Potassium | K | Tellurium | Te |
| Barium | Ba | Europium | Eu | Lutetium | Lu | Praseodymium | Pr | Terbium | Tb |
| Berkelium | Bk | Fermium | Fm | Magnesium | Mg | Promethium | Pm | Thallium | Tl |
| Beryllium | Be | Fluorine | F | Manganese | Mn | Protactinium | Pa | Thorium | Th |
| Bismuth | Bi | Francium | Fr | Meitnerium | Mt | Radium | Ra | Thulium | Tm |
| Bohrium | Bh | Gadolinium | Gd | Mendelevium | Md | Radon | Rn | Tin | Sn |
| Boron | B | Gallium | Ga | Mercury | Hg | Rhenium | Re | Titanium | Ti |
| Bromine | Br | Germanium | Ge | Molybdenum | Mo | Rhodium | Rh | Tungsten | W |
| Cadmium | Cd | Gold | Au | Neodymium | Nd | Rubidium | Rb | Uranium | U |
| Calcium | Ca | Hafnium | Hf | Neon | Ne | Ruthenium | Ru | Vanadium | V |
| Californium | Cf | Hassium | Hs | Neptunium | Np | Rutherfordium | Rf | Xenon | Xe |
| Carbon | C | Helium | He | Nickel | Ni | Samarium | Sm | Ytterbium | Yb |
| Cerium | Ce | Holmium | Ho | Niobium | Nb | Scandium | Sc | Yttrium | Y |
| Cesium | Cs | Hydrogen | H | Nitrogen | N | Seaborgium | Sg | Zinc | Zn |
| Chlorine | Cl | Indium | In | Nobelium | No | Selenium | Se | Zirconium | Zr |
| Chromium | Cr | Iodine | I | Osmium | Os | Silicon | Si | | |

