

This image displays a periodic table of elements, color-coded by groups and periods. The table includes element symbols, atomic numbers, and names. It is organized into blocks for s, p, d, and f orbitals. The colors used are yellow, green, blue, red, and grey.

The periodic table is organized into groups (vertical columns) and periods (horizontal rows). The elements are color-coded as follows:

- Yellow:** Groups 1, 2, and 13-18 (main groups).
- Green:** Groups 3-10 (transition metals).
- Blue:** Groups 11-12 (post-transition metals).
- Red:** Groups 13-18 (main groups).
- Grey:** Groups 1-2 (alkali and alkaline earth metals).

The periodic table includes the following elements:

- Hydrogen (H):** 1
- Helium (He):** 2
- Lithium (Li):** 3
- Beryllium (Be):** 4
- Boron (B):** 5
- Carbon (C):** 6
- Nitrogen (N):** 7
- Oxygen (O):** 8
- Fluorine (F):** 9
- Neon (Ne):** 10
- Sodium (Na):** 11
- Magnesium (Mg):** 12
- Aluminum (Al):** 13
- Silicon (Si):** 14
- Phosphorus (P):** 15
- Sulfur (S):** 16
- Chlorine (Cl):** 17
- Argon (Ar):** 18
- Potassium (K):** 19
- Calcium (Ca):** 20
- Scandium (Sc):** 21
- Titanium (Ti):** 22
- Vanadium (V):** 23
- Chromium (Cr):** 24
- Manganese (Mn):** 25
- Iron (Fe):** 26
- Cobalt (Co):** 27
- Nickel (Ni):** 28
- Copper (Cu):** 29
- Zinc (Zn):** 30
- Gallium (Ga):** 31
- Germanium (Ge):** 32
- Arsenic (As):** 33
- Selenium (Se):** 34
- Bromine (Br):** 35
- Krypton (Kr):** 36
- Rubidium (Rb):** 37
- Strontium (Sr):** 38
- Yttrium (Y):** 39
- Zirconium (Zr):** 40
- Niobium (Nb):** 41
- Molybdenum (Mo):** 42
- Technetium (Tc):** 43
- Ruthenium (Ru):** 44
- Rhodium (Rh):** 45
- Palladium (Pd):** 46
- Silver (Ag):** 47
- Cadmium (Cd):** 48
- Indium (In):** 49
- Tin (Sn):** 50
- Antimony (Sb):** 51
- Tellurium (Te):** 52
- Iodine (I):** 53
- Xenon (Xe):** 54
- Cesium (Cs):** 55
- Barium (Ba):** 56
- Lanthanum (La):** 57
- Cerium (Ce):** 58
- Praseodymium (Pr):** 59
- Neodymium (Nd):** 60
- Europium (Eu):** 61
- Gadolinium (Gd):** 62
- Terbium (Tb):** 63
- Dysprosium (Dy):** 64
- Homium (Ho):** 65
- Erbium (Er):** 66
- Thulium (Tm):** 67
- Ytterbium (Yb):** 68
- Lutetium (Lu):** 69
- Hafnium (Hf):** 70
- Tantalum (Ta):** 71
- Vanadium (V):** 72
- Chromium (Cr):** 73
- Manganese (Mn):** 74
- Iron (Fe):** 75
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- Rubidium (Rb):** 86
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- Niobium (Nb):** 90
- Molybdenum (Mo):** 91
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- Antimony (Sb):** 100
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