

CORE CONCEPTS

Periodic Table

| Group | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|-------|-----------------------------------|---------------------------------|---------------------------------|---|-------------------------------------|--------------------------------------|------------------------------------|-----------------------------------|--------------------------------------|--|---------------------------------------|---------------------------------------|---------------------------------------|-------------------------------------|--------------------------------------|---------------------------------------|--------------------------------------|-------------------------------------|
| 1 | 1 H Hydrogen | | | | | | | | | | | | | | | | | 2 He Helium |
| 2 | 3 Li Lithium | 4 Be Beryllium | | | | | | | | | | | 5 B Boron | 6 C Carbon | 7 N Nitrogen | 8 O Oxygen | 9 F Fluorine | 10 Ne Neon |
| 3 | 11 Na Sodium | 12 Mg Magnesium | | | | | | | | | | | 13 Al Aluminum | 14 Si Silicon | 15 P Phosphorus | 16 S Sulfur | 17 Cl Chlorine | 18 Ar Argon |
| 4 | 19 K Potassium | 20 Ca Calcium | 21 Sc Scandium | 22 Ti Titanium | 23 V Vanadium | 24 Cr Chromium | 25 Mn Manganese | 26 Fe Iron | 27 Co Cobalt | 28 Ni Nickel | 29 Cu Copper | 30 Zn Zinc | 31 Ga Gallium | 32 Ge Germanium | 33 As Arsenic | 34 Se Selenium | 35 Br Bromine | 36 Kr Krypton |
| 5 | 37 Rb Rubidium | 38 Sr Strontium | 39 Y Yttrium | 40 Zr Zirconium | 41 Nb Niobium | 42 Mo Molybdenum | 43 (98) Tc Technetium | 44 101 Ru Ruthenium | 45 103 Rh Rhodium | 46 106 Pd Palladium | 47 108 Ag Silver | 48 112 Cd Cadmium | 49 115 In Indium | 50 119 Sn Tin | 51 122 Sb Antimony | 52 128 Te Tellurium | 53 127 I Iodine | 54 131 Xe Xenon |
| 6 | 55 Cs Cesium | 56 Ba Barium | 57-71 | 72 Hf Hafnium | 73 Ta Tantalum | 74 W Tungsten | 75 Re Rhenium | 76 Os Osmium | 77 Ir Iridium | 78 Pt Platinum | 79 Au Gold | 80 Hg Mercury | 81 Tl Thallium | 82 Pb Lead | 83 Bi Bismuth | 84 (209) Po Polonium | 85 (210) At Astatine | 86 (222) Rn Radon |
| 7 | 87 (223) Fr Francium | 88 (226) Ra Radium | 89-103 | 104 (261) Rf Rutherfordium | 105 (262) Db Dubnium | 106 (266) Sg Seaborgium | 107 (264) Bh Bohrium | 108 (277) Hs Hassium | 109 (268) Mt Meitnerium | 110 (281) Ds Darmstadtium | 111 (280) Rg Roentgenium | 112 (285) Cn Copernicium | 113 (284) Nh Nihonium | 114 (289) Fl Flerovium | 115 (288) Mc Moscovium | 116 (293) Lv Livermorium | 117 (294) Ts Tennessine | 118 (294) Og Oganesson |
| | 57 La Lanthanum | 58 Ce Cerium | 59 Pr Praseodymium | 60 Nd Neodymium | 61 (145) Pm Promethium | 62 Sm Samarium | 63 Eu Europium | 64 Gd Gadolinium | 65 Tb Terbium | 66 Dy Dysprosium | 67 Ho Holmium | 68 Er Erbium | 69 Tm Thulium | 70 Yb Ytterbium | 71 Lu Lutetium | | | |
| | 89 (227) Ac Actinium | 90 Th Thorium | 91 Pa Protactinium | 92 U Uranium | 93 (237) Np Neptunium | 94 (244) Pu Plutonium | 95 Am Americium | 96 (247) Cm Curium | 97 (247) Bk Berkelium | 98 (251) Cf Californium | 99 (252) Es Einsteinium | 100 (257) Fm Fermium | 101 (258) Md Mendelevium | 102 (259) No Nobelium | 103 (262) Lr Lawrencium | | | |

Key

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|---------------|-----------|----|-----------------|
| Atomic Number | 20 | 40 | Atomic Weight |
| | Ca | | Chemical Symbol |
| Element Name | Calcium | | |