

Periodic Table

Metals

Noble Gases

Nonmetals

| | |
|----------|-----------------|
| 1 | ← Atomic Number |
| H | ← Symbol |
| Hydrogen | ← Element Name |
| 1 | ← |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|-----------------------------|--|------------------------------|-------------------------------|------------------------------|------------------------------|-------------------------------|------------------------------|--------------------------------|--------------------------------|-----------------------------|---------------------------------|------------------------------|--------------------------------|------------------------------|-----------------------------|---------------------------|------------------------------|---------------------------|---------------------------------|------------------------------|-------------------------------|-----------------------------|-----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|---------------------------|----------------------------|------------------------------|-----------------------------|-----------------------------|----------------------------|---------------------------------|---------------------------|------------------------------|------------------------------|------------------------------|---------------------------|------------------------------|--------------------------------|--------------------------------|-----------------------------|---------------------------------|------------------------------|--------------------------------|
| 3 Li Lithium 7 | 4 Be Beryllium 9 | | | | | | | | | | | 5 B Boron 11 | 6 C Carbon 12 | 7 N Nitrogen 14 | 8 O Oxygen 16 | 9 F Fluorine 19 | 10 Ne Neon 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 Na Sodium 23 | 12 Mg Magnesium 24 | Transition Elements | | | | | | | | | | 13 Al Aluminum 27 | 14 Si Silicon 28 | 15 P Phosphorus 31 | 16 S Sulfur 32 | 17 Cl Chlorine 35 | 18 Ar Argon 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 K Potassium 39 | 20 Ca Calcium 40 | 21 Sc Scandium 45 | 22 Ti Titanium 48 | 23 V Vanadium 51 | 24 Cr Chromium 52 | 25 Mn Manganese 55 | 26 Fe Iron 56 | 27 Co Cobalt 59 | 28 Ni Nickel 59 | 29 Cu Copper 64 | 30 Zn Zinc 65 | 31 Ga Gallium 70 | 32 Ge Germanium 73 | 33 As Arsenic 75 | 34 Se Selenium 79 | 35 Br Bromine 80 | 36 Kr Krypton 84 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 37 Rb Rubidium 85 | 38 Sr Strontium 88 | 39 Y Yttrium 89 | 40 Zr Zirconium 91 | 41 Nb Niobium 93 | 42 Mo Molybdenum 96 | 43 Tc Technetium 98 | 44 Ru Ruthenium 101 | 45 Rh Rhodium 103 | 46 Pd Palladium 106 | 47 Ag Silver 108 | 48 Cd Cadmium 112 | 49 In Indium 115 | 50 Sn Tin 119 | 51 Sb Antimony 122 | 52 Te Tellurium 128 | 53 I Iodine 127 | 54 Xe Xenon 131 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 55 Cs Cesium 133 | 56 Ba Barium 137 | ⋮ | 72 Hf Hafnium 178 | 73 Ta Tantalum 181 | 74 W Tungsten 184 | 75 Re Rhenium 186 | 76 Os Osmium 190 | 77 Ir Iridium 192 | 78 Pt Platinum 195 | 79 Au Gold 197 | 80 Hg Mercury 201 | 81 Tl Thallium 204 | 82 Pb Lead 207 | 83 Bi Bismuth 209 | 84 Po Polonium 209 | 85 At Astatine 210 | 86 Rn Radon 222 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 87 Fr Francium 223 | 88 Ra Radium 226 | <div style="display: flex; justify-content: space-between;"> <div style="text-align: left;"> <p>Lanthanide Series</p> <table border="1" style="font-size: small;"> <tr> <td>57 La Lanthanum 139</td> <td>58 Ce Cerium 140</td> <td>59 Pr Praseodymium 141</td> <td>60 Nd Neodymium 144</td> <td>61 Pm Promethium 145</td> <td>62 Sm Samarium 150</td> <td>63 Eu Europium 152</td> <td>64 Gd Gadolinium 157</td> <td>65 Tb Terbium 159</td> <td>66 Dy Dysprosium 163</td> <td>67 Ho Holmium 165</td> <td>68 Er Erbium 167</td> <td>69 Tm Thulium 169</td> <td>70 Yb Ytterbium 173</td> <td>71 Lu Lutetium 175</td> </tr> </table> </div> <div style="text-align: left;"> <p>Actinide Series</p> <table border="1" style="font-size: small;"> <tr> <td>89 Ac Actinium 227</td> <td>90 Th Thorium 232</td> <td>91 Pa Protactinium 231</td> <td>92 U Uranium 238</td> <td>93 Np Neptunium 237</td> <td>94 Pu Plutonium 244</td> <td>95 Am Americium 243</td> <td>96 Cm Curium 247</td> <td>97 Bk Berkelium 247</td> <td>98 Cf Californium 251</td> <td>99 Es Einsteinium 252</td> <td>100 Fm Fermium 257</td> <td>101 Md Mendelevium 258</td> <td>102 No Nobelium 259</td> <td>103 Lr Lawrencium 262</td> </tr> </table> </div> </div> | | | | | | | | | | | | | | | | 57 La Lanthanum 139 | 58 Ce Cerium 140 | 59 Pr Praseodymium 141 | 60 Nd Neodymium 144 | 61 Pm Promethium 145 | 62 Sm Samarium 150 | 63 Eu Europium 152 | 64 Gd Gadolinium 157 | 65 Tb Terbium 159 | 66 Dy Dysprosium 163 | 67 Ho Holmium 165 | 68 Er Erbium 167 | 69 Tm Thulium 169 | 70 Yb Ytterbium 173 | 71 Lu Lutetium 175 | 89 Ac Actinium 227 | 90 Th Thorium 232 | 91 Pa Protactinium 231 | 92 U Uranium 238 | 93 Np Neptunium 237 | 94 Pu Plutonium 244 | 95 Am Americium 243 | 96 Cm Curium 247 | 97 Bk Berkelium 247 | 98 Cf Californium 251 | 99 Es Einsteinium 252 | 100 Fm Fermium 257 | 101 Md Mendelevium 258 | 102 No Nobelium 259 | 103 Lr Lawrencium 262 |
| 57 La Lanthanum 139 | 58 Ce Cerium 140 | 59 Pr Praseodymium 141 | 60 Nd Neodymium 144 | 61 Pm Promethium 145 | 62 Sm Samarium 150 | 63 Eu Europium 152 | 64 Gd Gadolinium 157 | 65 Tb Terbium 159 | 66 Dy Dysprosium 163 | 67 Ho Holmium 165 | 68 Er Erbium 167 | 69 Tm Thulium 169 | 70 Yb Ytterbium 173 | 71 Lu Lutetium 175 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 89 Ac Actinium 227 | 90 Th Thorium 232 | 91 Pa Protactinium 231 | 92 U Uranium 238 | 93 Np Neptunium 237 | 94 Pu Plutonium 244 | 95 Am Americium 243 | 96 Cm Curium 247 | 97 Bk Berkelium 247 | 98 Cf Californium 251 | 99 Es Einsteinium 252 | 100 Fm Fermium 257 | 101 Md Mendelevium 258 | 102 No Nobelium 259 | 103 Lr Lawrencium 262 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Periodic Table



Group 1 **Metals**

Period 1

Key

- Metals
- Nonmetals
- Metalloids
- Gases
- Liquids

18 Noble Gases

Nonmetals

| | | | | | | | | | | | | | | | | | | |
|---|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|---------|------------|--------|----------|--------|
| 1 | | | | | | | | | | | 13 | 14 | 15 | 16 | 17 | 18 | | |
| 1 | | | | | | | | | | | 5 | 6 | 7 | 8 | 9 | 10 | | |
| 2 | 3 | 4 | | | | | | | | | | | Boron | Carbon | Nitrogen | Oxygen | Fluorine | Helium |
| 3 | 11 | 12 | | | | | | | | | | | Aluminum | Silicon | Phosphorus | Sulfur | Chlorine | Argon |
| 4 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
| 5 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 |
| 6 | 55 | 56 | ... | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 |
| 7 | 87 | 88 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |

Lanthanide Series

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 |
| La | Ce | Pr | Nd | Pm | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb | Lu |
| 139 | 140 | 141 | 144 | 145 | 150 | 152 | 157 | 159 | 163 | 165 | 167 | 169 | 173 | 175 |

Actinide Series

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 |
| Ac | Th | Pa | U | Np | Pu | Am | Cm | Bk | Cf | Es | Fm | Md | No | Lr |
| 227 | 232 | 231 | 238 | 237 | 244 | 243 | 247 | 247 | 251 | 252 | 257 | 258 | 259 | 262 |