Periodic table: main groups

ChemTable chemtable.org

	1A 1	2A 2	3A 13	4A 14	5A 15	6A 16	7A 17	8A 18
1	**1** 2.20 H Hydrogen 1.0080 1							**2** He Helium 4.0026 2
2	**3** 0.98 Li Lithium 6.94 2-1	**4** 1.57 Be Beryllium 9.0122 2-2	**5** 2.04 B Boron 10.81 2-3	**6** 2.55 C Carbon 12.011 2-4	**7** 3.04 N Nitrogen 14.007 2-5	**8** 3.44 O Oxygen 15.999 2-6	**9** 3.98 F Fluorine 18.998 2-7	**10** Ne Neon 20.180 2-8
3	**11** 0.93 Na Sodium 22.990 2-8-1	**12** 1.31 Mg Magnesium 24.305 2-8-2	**13** 1.61 Al Aluminium 26.982 2-8-3	**14** 1.90 Si Silicon 28.085 2-8-4	**15** 2.19 P Phosphorus 30.974 2-8-5	**16** 2.58 S Sulfur 32.06 2-8-6	**17** 3.16 Cl Chlorine 35.45 2-8-7	**18** Ar Argon 39.95 2-8-8
4	**19** 0.82 K Potassium 39.098 2-8-8-1	**20** 1.00 Ca Calcium 40.078 2-8-8-2	**31** 1.81 Ga Gallium 69.723 2-8-18-3	**32** 2.01 Ge Germanium 72.630 2-8-18-4	**33** 2.18 As Arsenic 74.922 2-8-18-5	**34** 2.55 Se Selenium 78.971 2-8-18-6	**35** 2.96 Br Bromine 79.904 2-8-18-7	**36** 3.00 Kr Krypton 83.798 2-8-18-8
5	**37** 0.82 Rb Rubidium 85.468 2-8-18-8-1	**38** 0.95 Sr Strontium 87.62 2-8-18-8-2	**49** 1.78 In Indium 114.82 2-8-18-18-3	**50** 1.96 Sn Tin 118.71 2-8-18-18-4	**51** 2.05 Sb Antimony 121.76 2-8-18-18-5	**52** 2.1 Te Tellurium 127.60 2-8-18-18-6	**53** 2.66 I Iodine 126.90 2-8-18-18-7	**54** 2.6 Xe Xenon 131.29 2-8-18-18-8
6	**55** 0.79 Cs Caesium 132.91 2-8-18-18-8-1	**56** 0.89 Ba Barium 137.33 2-8-18-18-8-2	**81** 1.62 Tl Thallium 204.38 2-8-18-32-18-3	**82** 1.87 Pb Lead 207.2 2-8-18-32-18-4	**83** 2.02 Bi Bismuth 208.98 2-8-18-32-18-5	**84** 2.0 Po Polonium [209] 2-8-18-32-18-6	**85** At Astatine [210] 2-8-18-32-18-7	**86** Rn Radon [222] 2-8-18-32-18-8
7	**87** Fr Francium [223] 2-8-18-32-18-8-1	**88** 0.9 Ra Radium [226] 2-8-18-32-18-8-2	**113** Nh Nihonium [286] 2-8-18-32-32-18-3	**114** Fl Flerovium [289] 2-8-18-32-32-18-4	**115** Mc Moscovium [290] 2-8-18-32-32-18-5	**116** Lv Livermorium [293] 2-8-18-32-32-18-6	**117** Ts Tennessine [294] 2-8-18-32-32-18-7	**118** Og Oganesson [294] 2-8-18-32-32-18-8

[227] — mass number of the most stable isotope

8 3.44
O
Oxygen
15.999
2-6

Atomic number · χ

Symbol; dots are valence electrons

Name
Atomic mass
Electrons per shell

Main groups

1A–8A is the main group number, with the IUPAC group number (1, 2, 13–18) below it. The main group number equals the number of valence electrons; helium has 2.

- Alkali metals
- Alkaline earth metals
- Post-transition metals
- Metalloids
- Nonmetals
- Halogens
- Noble gases

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