

Chapter 10: Periodic Table of the Elements

Table (landscape view)

See Figure [below](#).

Table (portrait view) { #sec:xtocid15791151 }

Data

Atomic masses shown in parentheses indicate the *most stable* isotope (longest half-life) known.

Electron configuration data was taken from Douglas C. Giancoli's *Physics*, 3rd edition. Average atomic masses were taken from Kenneth W. Whitten's, Kenneth D. Gailey's, and Raymond E. Davis' *General Chemistry*, 3rd edition. In the latter book, the masses were specified as 1985 IUPAC values.

1 LA		2 IIA																3 IIIB 4 IVB 5 VIB 6 VIB 7 VIB 8 VIB 9 VIB 10 VIB 11 1B 12 IIB										13 IIIA 14 IVA 15 VA 16 VIA 17 VIIA 18 VIIIA									
H		Li																Be										B									
1s ¹		2s ¹																2s ²										2p ¹									
3		4																5										6									
Li		Be																B										C									
6.941		9.012182																10.81										12.011									
2s ¹		2s ²																2p ²										2p ²									
Na		Mg																13										14									
22.989768		24.3050																26.9815										28.0855									
3s ¹		3s ²																3p ¹										3p ²									
K		Ca																39										40									
39.0983		40.078																39.0983										39.0983									
4s ¹		4s ²																3d ¹ 4s ¹										3d ² 4s ²									
Rb		Sr																85.4678										87.62									
5s ¹		5s ²																4d ¹ 5s ¹										4d ² 5s ²									
Cs		Ba																132.90543										137.327									
6s ¹		6s ²																5d ¹ 6s ¹										5d ² 6s ²									
Fr		Ra																(223)										(226)									
7s ¹		7s ²																(223)										(226)									

Figure 1 Periodic table of chemical elements.

Figure 2 Periodic table of chemical elements.

