

Example: Sodium goes to group 1

The Periodic Table of the Elements

Predicting the Charge of Ions

- 1+ ☐
- 2+ ☐
- 3+ ☐
- 4+/- ☐
- 3- ☐
- 2- ☐
- 1- ☐

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Hydrogen 1.00794		Lithium 6.941	Beryllium 9.012182			Boron 10.811	Carbon 12.0107	Nitrogen 14.00674	Oxygen 15.9994	Fluorine 18.9984032	Neon 20.1797							Aluminum 26.981538	Silicon 28.0855	Phosphorus 30.973761	Sulfur 32.066	Chlorine 35.4527	Argon 39.948																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										

+1	+2	+3										+4	-3	-2	-1	0
58 Ce Cerium 140.136	59 Pr Praseodymium 140.90765	60 Nd Neodymium 144.24	61 Pm Promethium (145)	62 Sm Samarium 150.36	63 Eu Europium 151.964	64 Gd Gadolinium 157.25	65 Tb Terbium 158.92534	66 Dy Dysprosium 162.50	67 Ho Holmium 164.93032	68 Er Erbium 167.26	69 Tm Thulium 168.93421	70 Yb Ytterbium 173.04	71 Lu Lutetium 174.967			
90 Th Thorium 232.0381	91 Pa Protactinium 231.03688	92 U Uranium 238.0289	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)			