

# Periodic Table of Elements

$1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^2 4d^{10} 5p^6 6s^2 4f^{14} 5d^{10} 6p^6 7s^2 5f^{14} 6d^{10} 7p^6$

1	1 IA																18 VIIIA										
	1	2.20																2	4.00								
2	<div><div><div>Z</div><div>χ (E.N.)</div><div>Symbol</div><div>Element Name</div><div>Atomic Mass</div></div></div>																										
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Alkali Metal

Alkaline-Earth

Metal

Metalloid

Non-metal

Halogen

Noble Gas

Lanthanide/Actinide

★

Aufbau Exception

Synthetic

Liquid

 or 

Gas

@ Room Temp.

EN, IE, EA, &  $\mathcal{Z}_{eff}$  increase  $\rightarrow \uparrow$

Radius & Metallic increase  $\leftarrow \downarrow$

57	1.1	58	1.12	59	1.13	60	1.14	61	1.13	62	1.17	63	1.2	64	1.2	65	1.1	66	1.22	67	1.23	68	1.24	69	1.25	70	1.1	71	1.27
<b>La</b> Lanthanum 138.91		<b>Ce</b> Cerium 140.12		<b>Pr</b> Praseodymium 140.91		<b>Nd</b> Neodymium 144.24		<b>Pm</b> Promethium (145)		<b>Sm</b> Samarium 150.36		<b>Eu</b> Europium 151.96		<b>Gd</b> Gadolinium 157.25		<b>Tb</b> Terbium 158.93		<b>Dy</b> Dysprosium 162.50		<b>Ho</b> Holmium 164.93		<b>Er</b> Erbium 167.26		<b>Tm</b> Thulium 168.93		<b>Yb</b> Ytterbium 173.05		<b>Lu</b> Lutetium 174.97	
89	1.1	90	1.3	91	1.5	92	1.38	93	1.36	94	1.28	95	1.13	96	1.28	97	1.3	98	1.3	99	1.3	100	1.3	101	1.3	102	1.3	103	1.3
<b>Ac</b> Actinium (227)		<b>Th</b> Thorium 232.04		<b>Pa</b> Protactinium 231.04		<b>U</b> Uranium 238.03		<b>Np</b> Neptunium (237)		<b>Pu</b> Plutonium (244)		<b>Am</b> Americium (243)		<b>Cm</b> Curium (247)		<b>Bk</b> Berkelium (247)		<b>Cf</b> Californium (251)		<b>Es</b> Einsteinium (252)		<b>Fm</b> Fermium (257)		<b>Md</b> Mendelevium (258)		<b>No</b> Nobelium (259)		<b>Lr</b> Lawrencium (266)	