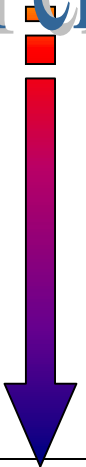


# Periodic Trends



1. Decreasing Nuclear Charge
2. Shielding Effect Increases
3. Atomic Radius Increases
4. Ionization Energy Decreases
5. Electron Affinity Decreases
6. Electronegativity Decreases

1. Increasing Nuclear Charge
2. Shielding Effect Constant
3. Atomic Radius Decreases
4. Ionization Energy Increases
5. Electron Affinity Increases
6. Electronegativity Increases



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
hydrogen 1 <b>H</b> 1.00794(7)																		helium 2 <b>He</b> 4.002602(2)
lithium 3 <b>Li</b> 6.941(2)	beryllium 4 <b>Be</b> 9.012182(3)																	neon 10 <b>Ne</b> 20.1797(6)
sodium 11 <b>Na</b> 22.989770(2)	magnesium 12 <b>Mg</b> 24.3050(6)																	argon 18 <b>Ar</b> 39.948(1)
potassium 19 <b>K</b> 39.0983(1)	calcium 20 <b>Ca</b> 40.078(4)																	krypton 36 <b>Kr</b> 83.798(2)
rubidium 37 <b>Rb</b> 85.4678(3)	strontium 38 <b>Sr</b> 87.62(1)																	xenon 54 <b>Xe</b> 131.293(6)
cesium 55 <b>Cs</b> 132.90545(2)	barium 56 <b>Ba</b> 137.327(7)	57-70 *																radon 86 <b>Rn</b> [222]
francium 87 <b>Fr</b> [223]	radium 88 <b>Ra</b> [226]	89-102 **																
			lanthanum 57 <b>La</b> [262]	cerium 58 <b>Ce</b> [261]	praseodymium 59 <b>Pr</b> [262]	neodymium 60 <b>Nd</b> [260]	promethium 61 <b>Pm</b> [264]	samarium 62 <b>Sm</b> [260]	europium 63 <b>Eu</b> [268]	gadolinium 64 <b>Gd</b> [271]	terbium 65 <b>Tb</b> [272]	dysprosium 66 <b>Dy</b> [285]	holmium 67 <b>Ho</b> [285]	erbium 68 <b>Er</b> [285]	thulium 69 <b>Tm</b> [285]	ytterbium 70 <b>Yb</b> [285]		
			actinium 89 <b>Ac</b> [227]	thorium 90 <b>Th</b> 232.0381(1)	protactinium 91 <b>Pa</b> 231.03688(2)	uranium 92 <b>U</b> 238.02891(3)	neptunium 93 <b>Np</b> [237]	plutonium 94 <b>Pu</b> [244]	americium 95 <b>Am</b> [243]	curium 96 <b>Cm</b> [247]	berkelium 97 <b>Bk</b> [247]	californium 98 <b>Cf</b> [251]	einsteinium 99 <b>Es</b> [252]	fermium 100 <b>Fm</b> [257]	mendeleevium 101 <b>Md</b> [258]	nobelium 102 <b>No</b> [259]		

Key:  
 element name  
 atomic number  
**symbol**  
 2001 atomic weight (mean relative mass)

\*lanthanoids

\*\*actinoids

lanthanum 57 <b>La</b> [262]	cerium 58 <b>Ce</b> [261]	praseodymium 59 <b>Pr</b> [262]	neodymium 60 <b>Nd</b> [260]	promethium 61 <b>Pm</b> [264]	samarium 62 <b>Sm</b> [260]	europium 63 <b>Eu</b> [268]	gadolinium 64 <b>Gd</b> [271]	terbium 65 <b>Tb</b> [272]	dysprosium 66 <b>Dy</b> [285]	holmium 67 <b>Ho</b> [285]	erbium 68 <b>Er</b> [285]	thulium 69 <b>Tm</b> [285]	ytterbium 70 <b>Yb</b> [285]
actinium 89 <b>Ac</b> [227]	thorium 90 <b>Th</b> 232.0381(1)	protactinium 91 <b>Pa</b> 231.03688(2)	uranium 92 <b>U</b> 238.02891(3)	neptunium 93 <b>Np</b> [237]	plutonium 94 <b>Pu</b> [244]	americium 95 <b>Am</b> [243]	curium 96 <b>Cm</b> [247]	berkelium 97 <b>Bk</b> [247]	californium 98 <b>Cf</b> [251]	einsteinium 99 <b>Es</b> [252]	fermium 100 <b>Fm</b> [257]	mendeleevium 101 <b>Md</b> [258]	nobelium 102 <b>No</b> [259]