

Atomic Structure Answers

1. The Atomic Number of an element shows the number of: Protons
2. The Atomic Mass of an atom shows the number of: Protons + Neutrons
3. The number of Neutrons can be calculated by taking the Atomic Mass and subtracting the Atomic Number.
4. Protons have a positive charge and electrons have a negative charge.
5. Atoms are usually neutral (they have an equal number of positive and negative charges). Therefore, the number of protons is equal to the number of electrons in an atom.

Element Name	Element Symbol	Atomic Number	Atomic Mass	Number of Electrons	Number of Protons	Number of Neutrons
Oxygen	O	8	16	8	8	8
Carbon	C	6	12	6	6	6
Hydrogen	H	1	1	1	1	0
Nitrogen	N	7	14	7	7	7
Calcium	Ca	20	40	20	20	20
Phosphorus	P	15	31	15	15	16
Chlorine	Cl	17	35	17	17	18
Magnesium	Mg	12	24	12	12	12
Silicon	Si	14	28	14	14	14
Potassium	K	19	39	19	19	20
Strontium	Sr	38	88	38	38	50
Francium	Fr	87	223	87	87	136
Xenon	Xe	54	131	54	54	77

Find answers with the Periodic Table on the 2nd page or here: <http://www.ptable.com/>

hydrogen 1 H 1.0079	beryllium 4 Be 9.0122	helium 2 He 4.0026												
lithium 3 Li 6.941	magnesium 12 Mg 24.305													
sodium 11 Na 22.990	calcium 20 Ca 40.078													
potassium 19 K 39.098														
rubidium 37 Rb 85.468	strontium 38 Sr 87.62													
caesium 55 Cs 132.91	barium 56 Ba 137.33													
francium 87 Fr [223]	radium 88 Ra [226]													
scandium 21 Sc 44.956	titanium 22 Ti 47.867	aluminum 13 Al 26.982												
yttrium 39 Y 88.906	zirconium 40 Zr 91.224	silicon 14 Si 28.086												
lutetium 71 Lu 174.97	niobium 41 Nb 92.906	phosphorus 15 P 32.065												
hafnium 72 Hf 178.49	chromium 24 Cr 51.996	sulfur 16 S 32.053												
tantalum 73 Ta 180.95	manganese 25 Mn 54.938	chlorine 17 Cl 35.453												
tungsten 74 W 183.84	iron 26 Fe 55.845	argon 18 Ar 39.948												
rhenium 75 Re 186.21	cobalt 27 Co 58.933													
osmium 76 Os 190.23	nickel 28 Ni 58.693													
iridium 77 Ir 192.22	copper 29 Cu 63.546													
platinum 78 Pt 195.08	zinc 30 Zn 65.39													
gold 79 Au 196.97	gallium 31 Ga 69.723													
mercury 80 Hg 200.59	indium 49 In 112.41													
thallium 81 Tl 204.38	tin 50 Sn 114.82													
lead 82 Pb 207.2	antimony 51 Sb 118.71													
bismuth 83 Bi 208.98	tellurium 52 Te 121.76													
polonium 84 Po [209]	iodine 53 I 127.60													
astatine 85 At [210]	radon 86 Rn [222]													
lanthanide series	lanthanum 57 La 138.91	cerium 58 Ce 140.12	praseodymium 59 Pr 140.91	neodymium 60 Nd 144.24	promethium 61 Pm [145]	samarium 62 Sm 150.36	europerium 63 Eu 151.96	gadolinium 64 Gd 157.25	terbium 65 Tb 158.93	dysprosium 66 Dy 162.50	holmium 67 Ho 164.93	erbium 68 Er 167.26	thulium 69 Tm 168.93	ytterbium 70 Yb 173.04
actinide series	actinium 89 Ac [227]	thorium 90 Th 232.04	protactinium 91 Pa 231.04	uranium 92 U 238.03	neptunium 93 Np [237]	plutonium 94 Pu [244]	americium 95 Am [243]	curium 96 Cm [247]	berkelium 97 Bk [247]	californium 98 Cf [251]	einsteinium 99 Es [252]	fermium 100 Fm [257]	mendelevium 101 Md [258]	nobelium 102 No [259]

* Lanthanide series

** Actinide series