

valence electrons

Oxidation number

PERIODIC TABLE OF THE ELEMENTS

Legend

Atomic Number

Element Name

Element Symbol

Average Atomic Mass

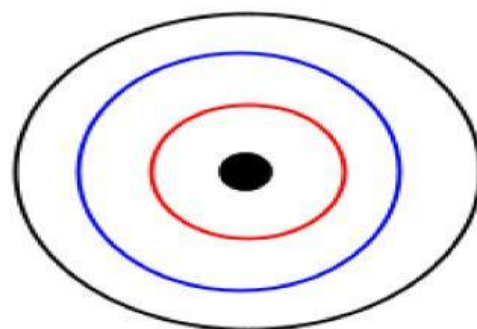
Reference Tables for Chemistry (July 2020)

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For the element **Magnesium**, drag the correct colored dots from the periodic table into the correct energy levels of the bohr diagram shown to the right.

Periodic table snippet showing elements 1 through 12, with Magnesium (Mg) highlighted.



12
Mg
Magnesium
24.31

- How many protons and neutrons are in the nucleus for this element?
- How many electrons orbit the nucleus for this element?
- How many electrons are in the first energy level?
- How many electrons are in the second energy level?
- How many electrons are in the third energy level?
- How many valence electrons does this element have?

valence electrons	1	2		3	4	5	6	7	8
Oxidation number	+1	+2		+3	N/A	-3	-2	-1	0
1	2								18
1	2								2
3	4								10
11	12								18
19	20								36
37	38								54
55	56								86
87	88								118
119	120								180
137	138								286
151	152								354
165	166								430
179	180								509
193	194								589
207	208								669
221	222								747
235	236								823
249	250								901
263	264								979
277	278								1057
291	292								1135
305	306								1213
319	320								1291
333	334								1369
347	348								1447
361	362								1525
375	376								1603
389	390								1681
403	404								1759
417	418								1837
431	432								1915
445	446								1993
459	460								2071
473	474								2149
487	488								2227
501	502								2305
515	516								2383
529	530								2461
543	544								2539
557	558								2617
571	572								2695
585	586								2773
599	600								2851
613	614								2929
627	628								3007
641	642								3085
655	656								3163
669	670								3241
683	684								3319
697	698								3397
711	712								3475
725	726								3553
739	740								3631
753	754								3709
767	768								3787
781	782								3865
795	796								3943
809	810								4021
823	824								4099
837	838								4177
851	852								4255
865	866								4333
879	880								4411
893	894								4489
907	908								4567
921	922								4645
935	936								4723
949	950								4801
963	964								4879
977	978								4957
991	992								5035
1005	1006								5113
1019	1020								5191
1033	1034								5269
1047	1048								5347
1061	1062								5425
1075	1076								5503
1089	1090								5581
1103	1104								5659
1117	1118								5737
1131	1132								5815
1145	1146								5893
1159	1160								5971
1173	1174								6049
1187	1188								6127
1201	1202								6205
1215	1216								6283
1229	1230								6361
1243	1244								6439
1257	1258								6517
1271	1272								6595
1285	1286								6673
1299	1300								6751
1313	1314								6829
1327	1328								6907
1341	1342								6985
1355	1356								7063
1369	1370								7141
1383	1384								7219
1397	1398								7297
1411	1412								7375
1425	1426								7453
1439	1440								7531
1453	1454								7609
1467	1468								7687
1481	1482								7765
1495	1496								7843
1509	1510								7921
1523	1524								7999
1537	1538								8077
1551	1552								8155
1565	1566								8233
1579	1580								8311
1593	1594								8389
1607	1608								8467
1621	1622								8545
1635	1636								8623
1649	1650								8701
1663	1664								8779
1677	1678								8857
1691	1692								8935
1705	1706								9013
1719	1720								9091
1733	1734								9169
1747	1748								9247
1761	1762								9325
1775	1776								9403
1789	1790								9481
1803	1804								9559
1817	1818								9637
1831	1832								9715
1845	1846								9793
1859	1860								9871
1873	1874								9949
1887	1888								10027
1901	1902								10105
1915	1916								10183
1929	1930								10261
1943	1944								10339
1957	1958								10417
1971	1972								10495
1985	1986								10573
1999	2000								10651
2013	2014								10729
2027	2028								10807
2041	2042								10885
2055	2056								10963
2069	2070								11041
2083	2084								11119
2097	2098								11197
2111	2112								11275
2125	2126								11353
2139	2140								11431
2153	2154								11509
2167	2168								11587
2181	2182								11665
2195	2196								11743
2209	2210								11821
2223	2224								11899
2237	2238								11977
2251	2252								12055
2265	2266								12133
2279	2280								12211
2293	2294								12289
2307	2308								12367
2321	2322								12445
2335	2336								12523
2349	2350								12601
2363	2364								12679
2377	2378								12757
2391	2392								12835
2405	2406								12913
2419	2420								12991
2433	2434								13069
2447	2448								13147
2461	2462								13225
2475	2476								13303
2489	2490								13381
2503	2504								13459
2517	2518								13537
2531	2532								13615
2545	2546								13693
2559	2560								13771
2573	2574								13849
2587	2588								13927
2601	2602								14005
2615	2616								14083
2629	2630								14161
2643	2644								14239
2657	2658								14317
2671	2672								14395
2685	2686								14473
2699	2700								14551
2713	2714								14629
2727	2728								14707
2741	2742								14785
2755	2756								14863
2769	2770								14941
2783	2784								15019
2797	2798								15097
2811	2812								15175
2825	2826								15253
2839	2840								

