

Periodic table with atomic number, symbol, and electron configuration

period

group

1\*

Alkali metals

Alkaline-earth metals

Transition metals

Other metals

Other nonmetals

Halogens

Noble gases

Rare-earth elements (21, 39, 57–71) and lanthanoid elements (57–71 only)

Actinoid elements

|      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|
| 1    | 2    | 13   | 14   | 15   | 16   | 17   | 18   |
| 1    | 2    |      |      |      |      |      |      |
| 3    | 4    |      |      |      |      |      |      |
| 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   |
| 13   | 14   | 15   | 16   | 17   | 18   |      |      |
| 19   | 20   | 21   | 22   | 23   | 24   | 25   | 26   |
| 27   | 28   | 29   | 30   | 31   | 32   | 33   | 34   |
| 35   | 36   | 37   | 38   | 39   | 40   | 41   | 42   |
| 43   | 44   | 45   | 46   | 47   | 48   | 49   | 50   |
| 51   | 52   | 53   | 54   | 55   | 56   | 57   | 58   |
| 59   | 60   | 61   | 62   | 63   | 64   | 65   | 66   |
| 67   | 68   | 69   | 70   | 71   | 72   | 73   | 74   |
| 75   | 76   | 77   | 78   | 79   | 80   | 81   | 82   |
| 83   | 84   | 85   | 86   | 87   | 88   | 89   | 90   |
| 91   | 92   | 93   | 94   | 95   | 96   | 97   | 98   |
| 99   | 100  | 101  | 102  | 103  | 104  | 105  | 106  |
| 107  | 108  | 109  | 110  | 111  | 112  | 113  | 114  |
| 115  | 116  | 117  | 118  | 119  | 120  | 121  | 122  |
| 123  | 124  | 125  | 126  | 127  | 128  | 129  | 130  |
| 131  | 132  | 133  | 134  | 135  | 136  | 137  | 138  |
| 139  | 140  | 141  | 142  | 143  | 144  | 145  | 146  |
| 147  | 148  | 149  | 150  | 151  | 152  | 153  | 154  |
| 155  | 156  | 157  | 158  | 159  | 160  | 161  | 162  |
| 163  | 164  | 165  | 166  | 167  | 168  | 169  | 170  |
| 171  | 172  | 173  | 174  | 175  | 176  | 177  | 178  |
| 179  | 180  | 181  | 182  | 183  | 184  | 185  | 186  |
| 187  | 188  | 189  | 190  | 191  | 192  | 193  | 194  |
| 195  | 196  | 197  | 198  | 199  | 200  | 201  | 202  |
| 203  | 204  | 205  | 206  | 207  | 208  | 209  | 210  |
| 211  | 212  | 213  | 214  | 215  | 216  | 217  | 218  |
| 219  | 220  | 221  | 222  | 223  | 224  | 225  | 226  |
| 227  | 228  | 229  | 230  | 231  | 232  | 233  | 234  |
| 235  | 236  | 237  | 238  | 239  | 240  | 241  | 242  |
| 243  | 244  | 245  | 246  | 247  | 248  | 249  | 250  |
| 251  | 252  | 253  | 254  | 255  | 256  | 257  | 258  |
| 259  | 260  | 261  | 262  | 263  | 264  | 265  | 266  |
| 267  | 268  | 269  | 270  | 271  | 272  | 273  | 274  |
| 275  | 276  | 277  | 278  | 279  | 280  | 281  | 282  |
| 283  | 284  | 285  | 286  | 287  | 288  | 289  | 290  |
| 291  | 292  | 293  | 294  | 295  | 296  | 297  | 298  |
| 299  | 300  | 301  | 302  | 303  | 304  | 305  | 306  |
| 307  | 308  | 309  | 310  | 311  | 312  | 313  | 314  |
| 315  | 316  | 317  | 318  | 319  | 320  | 321  | 322  |
| 323  | 324  | 325  | 326  | 327  | 328  | 329  | 330  |
| 331  | 332  | 333  | 334  | 335  | 336  | 337  | 338  |
| 339  | 340  | 341  | 342  | 343  | 344  | 345  | 346  |
| 347  | 348  | 349  | 350  | 351  | 352  | 353  | 354  |
| 355  | 356  | 357  | 358  | 359  | 360  | 361  | 362  |
| 363  | 364  | 365  | 366  | 367  | 368  | 369  | 370  |
| 371  | 372  | 373  | 374  | 375  | 376  | 377  | 378  |
| 379  | 380  | 381  | 382  | 383  | 384  | 385  | 386  |
| 387  | 388  | 389  | 390  | 391  | 392  | 393  | 394  |
| 395  | 396  | 397  | 398  | 399  | 400  | 401  | 402  |
| 403  | 404  | 405  | 406  | 407  | 408  | 409  | 410  |
| 411  | 412  | 413  | 414  | 415  | 416  | 417  | 418  |
| 419  | 420  | 421  | 422  | 423  | 424  | 425  | 426  |
| 427  | 428  | 429  | 430  | 431  | 432  | 433  | 434  |
| 435  | 436  | 437  | 438  | 439  | 440  | 441  | 442  |
| 443  | 444  | 445  | 446  | 447  | 448  | 449  | 450  |
| 451  | 452  | 453  | 454  | 455  | 456  | 457  | 458  |
| 459  | 460  | 461  | 462  | 463  | 464  | 465  | 466  |
| 467  | 468  | 469  | 470  | 471  | 472  | 473  | 474  |
| 475  | 476  | 477  | 478  | 479  | 480  | 481  | 482  |
| 483  | 484  | 485  | 486  | 487  | 488  | 489  | 490  |
| 491  | 492  | 493  | 494  | 495  | 496  | 497  | 498  |
| 499  | 500  | 501  | 502  | 503  | 504  | 505  | 506  |
| 507  | 508  | 509  | 510  | 511  | 512  | 513  | 514  |
| 515  | 516  | 517  | 518  | 519  | 520  | 521  | 522  |
| 523  | 524  | 525  | 526  | 527  | 528  | 529  | 530  |
| 531  | 532  | 533  | 534  | 535  | 536  | 537  | 538  |
| 539  | 540  | 541  | 542  | 543  | 544  | 545  | 546  |
| 547  | 548  | 549  | 550  | 551  | 552  | 553  | 554  |
| 555  | 556  | 557  | 558  | 559  | 560  | 561  | 562  |
| 563  | 564  | 565  | 566  | 567  | 568  | 569  | 570  |
| 571  | 572  | 573  | 574  | 575  | 576  | 577  | 578  |
| 579  | 580  | 581  | 582  | 583  | 584  | 585  | 586  |
| 587  | 588  | 589  | 590  | 591  | 592  | 593  | 594  |
| 595  | 596  | 597  | 598  | 599  | 600  | 601  | 602  |
| 603  | 604  | 605  | 606  | 607  | 608  | 609  | 610  |
| 611  | 612  | 613  | 614  | 615  | 616  | 617  | 618  |
| 619  | 620  | 621  | 622  | 623  | 624  | 625  | 626  |
| 627  | 628  | 629  | 630  | 631  | 632  | 633  | 634  |
| 635  | 636  | 637  | 638  | 639  | 640  | 641  | 642  |
| 643  | 644  | 645  | 646  | 647  | 648  | 649  | 650  |
| 651  | 652  | 653  | 654  | 655  | 656  | 657  | 658  |
| 659  | 660  | 661  | 662  | 663  | 664  | 665  | 666  |
| 667  | 668  | 669  | 670  | 671  | 672  | 673  | 674  |
| 675  | 676  | 677  | 678  | 679  | 680  | 681  | 682  |
| 683  | 684  | 685  | 686  | 687  | 688  | 689  | 690  |
| 691  | 692  | 693  | 694  | 695  | 696  | 697  | 698  |
| 699  | 700  | 701  | 702  | 703  | 704  | 705  | 706  |
| 707  | 708  | 709  | 710  | 711  | 712  | 713  | 714  |
| 715  | 716  | 717  | 718  | 719  | 720  | 721  | 722  |
| 723  | 724  | 725  | 726  | 727  | 728  | 729  | 730  |
| 731  | 732  | 733  | 734  | 735  | 736  | 737  | 738  |
| 739  | 740  | 741  | 742  | 743  | 744  | 745  | 746  |
| 747  | 748  | 749  | 750  | 751  | 752  | 753  | 754  |
| 755  | 756  | 757  | 758  | 759  | 760  | 761  | 762  |
| 763  | 764  | 765  | 766  | 767  | 768  | 769  | 770  |
| 771  | 772  | 773  | 774  | 775  | 776  | 777  | 778  |
| 779  | 780  | 781  | 782  | 783  | 784  | 785  | 786  |
| 787  | 788  | 789  | 790  | 791  | 792  | 793  | 794  |
| 795  | 796  | 797  | 798  | 799  | 800  | 801  | 802  |
| 803  | 804  | 805  | 806  | 807  | 808  | 809  | 810  |
| 811  | 812  | 813  | 814  | 815  | 816  | 817  | 818  |
| 819  | 820  | 821  | 822  | 823  | 824  | 825  | 826  |
| 827  | 828  | 829  | 830  | 831  | 832  | 833  | 834  |
| 835  | 836  | 837  | 838  | 839  | 840  | 841  | 842  |
| 843  | 844  | 845  | 846  | 847  | 848  | 849  | 850  |
| 851  | 852  | 853  | 854  | 855  | 856  | 857  | 858  |
| 859  | 860  | 861  | 862  | 863  | 864  | 865  | 866  |
| 867  | 868  | 869  | 870  | 871  | 872  | 873  | 874  |
| 875  | 876  | 877  | 878  | 879  | 880  | 881  | 882  |
| 883  | 884  | 885  | 886  | 887  | 888  | 889  | 890  |
| 891  | 892  | 893  | 894  | 895  | 896  | 897  | 898  |
| 899  | 900  | 901  | 902  | 903  | 904  | 905  | 906  |
| 907  | 908  | 909  | 910  | 911  | 912  | 913  | 914  |
| 915  | 916  | 917  | 918  | 919  | 920  | 921  | 922  |
| 923  | 924  | 925  | 926  | 927  | 928  | 929  | 930  |
| 931  | 932  | 933  | 934  | 935  | 936  | 937  | 938  |
| 939  | 940  | 941  | 942  | 943  | 944  | 945  | 946  |
| 947  | 948  | 949  | 950  | 951  | 952  | 953  | 954  |
| 955  | 956  | 957  | 958  | 959  | 960  | 961  | 962  |
| 963  | 964  | 965  | 966  | 967  | 968  | 969  | 970  |
| 971  | 972  | 973  | 974  | 975  | 976  | 977  | 978  |
| 979  | 980  | 981  | 982  | 983  | 984  | 985  | 986  |
| 987  | 988  | 989  | 990  | 991  | 992  | 993  | 994  |
| 995  | 996  | 997  | 998  | 999  | 1000 | 1001 | 1002 |
| 1003 | 1004 | 1005 | 1006 | 1007 | 1008 | 1009 | 1010 |
| 1011 | 1012 | 1013 | 1014 | 1015 | 1016 | 1017 | 1018 |
| 1019 | 1020 | 1021 | 1022 | 1023 | 1024 | 1025 | 1026 |
| 1027 | 1028 | 1029 | 1030 | 1031 | 1032 | 1033 | 1034 |
| 1035 | 1036 | 1037 | 1038 | 1039 | 1040 | 1041 | 1042 |
| 1043 | 1044 | 1045 | 1046 | 1047 | 1048 | 1049 | 1050 |
| 1051 | 1052 | 1053 | 1054 | 1055 | 1056 | 1057 | 1058 |
| 1059 | 1060 | 1061 | 1062 | 1063 | 1064 | 1065 | 1066 |
| 1067 | 1068 | 1069 | 1070 | 1071 | 1072 | 1073 | 1074 |
| 1075 | 1076 | 1077 | 1078 | 1079 | 1080 | 1081 | 1082 |
| 1083 | 1084 | 1085 | 1086 | 1087 | 1088 | 1089 | 1090 |
| 1091 | 1092 | 1093 | 1094 | 1095 | 1096 | 1097 | 1098 |
| 1099 | 1100 | 1101 | 1102 | 1103 | 1104 | 1105 | 1106 |
| 1107 | 1108 | 1109 | 1110 | 1111 | 1112 | 1113 | 1114 |
| 1115 | 1116 | 1117 | 1118 | 1119 | 1120 | 1121 | 1122 |
| 1123 | 1124 | 1125 | 1126 | 1127 | 1128 | 1129 | 1130 |
| 1131 | 1132 | 1133 | 1134 | 1135 | 1136 | 1137 | 1138 |
| 1139 | 1140 | 1141 | 1142 | 1143 | 1144 | 1145 | 1146 |
| 1147 | 1148 | 1149 | 1150 | 1151 | 1152 | 1153 | 1154 |
| 1155 | 1156 | 1157 | 1158 | 1159 | 1160 | 1161 | 1162 |
| 1163 | 1164 | 1165 | 1166 | 1167 | 1168 | 1169 | 1170 |
| 1171 | 1172 | 1173 | 1174 | 1175 | 1176 | 1177 | 1178 |
| 1179 | 1180 | 1181 | 1182 | 1183 | 1184 | 1185 | 1186 |
| 1187 | 1188 | 1189 | 1190 | 1191 | 1192 | 1193 | 1194 |
| 1195 | 1196 | 1197 | 1198 | 1199 | 1200 | 1201 | 1202 |
| 1203 | 1204 | 1205 | 1206 | 1207 | 1208 | 1209 | 1210 |
| 1211 | 1212 | 1213 | 1214 | 1215 | 1216 | 1217 | 1218 |
| 1219 | 1220 | 1221 | 1222 | 1223 | 1224 | 1225 | 1226 |
| 1227 | 1228 | 1229 | 1230 | 1231 | 1232 | 1233 | 1234 |
| 1235 | 1236 | 1237 | 1238 | 1239 | 1240 | 1241 | 1242 |
| 1243 | 1244 | 1245 | 1246 | 1247 | 1248 | 1249 | 1250 |
| 1251 | 1252 | 1253 | 1254 | 1255 | 1256 | 1257 | 1258 |
| 1259 | 1260 | 1261 | 1262 | 1263 | 1264 | 1265 | 1266 |
| 1267 | 1268 | 1269 | 1270 | 1271 | 1272 | 1273 | 1274 |
| 1275 | 1276 | 1277 | 1278 | 1279 | 1280 | 1281 | 1282 |
| 1283 | 1284 | 1285 | 1286 | 1287 | 1288 | 1289 | 1290 |
| 1291 | 1292 | 1293 | 1294 | 1295 | 1296 | 1297 | 1298 |
| 1299 | 1300 | 1301 | 1302 | 1303 | 1304 | 1305 | 1306 |
| 1307 | 1308 | 1309 | 1310 | 1311 | 1312 | 1313 | 1314 |
| 1315 | 1316 | 1317 | 1318 | 1319 | 1320 | 1321 | 1322 |
| 1323 | 1324 | 1325 | 1326 | 1327 | 1328 | 1329 | 1330 |
| 1331 | 1332 | 1333 | 1334 | 1335 | 1336 | 1337 | 1338 |
| 1339 | 1340 | 1341 | 1342 | 1343 | 1344 | 1345 | 1346 |
| 1347 | 1348 | 1349 | 1350 | 1351 | 1352 | 1353 | 1354 |
| 1355 | 1356 | 1357 | 1358 | 1359 | 1360 | 1361 | 1362 |
| 1363 | 1364 | 1365 | 1366 | 1367 | 1368 | 1369 | 1370 |
| 1371 | 1372 | 1373 | 1374 | 1375 | 1376 | 1377 | 1378 |