

6.2 Periodic table

1																
1	Hydrogen 1.007 94 1 H $1s^1$ 89 (β) 378 HEX 1.632 13.80 20.28															
2	Lithium 6.941 3 Li $[He]2s^1$ 533 (β) 351 BCC 453.65 1.613	Beryllium 9.012 182 4 Be $[He]2s^2$ 1846 229 HEX 1.568 1 560 2 745														
3	Sodium 22.989 770 11 Na $[Ne]3s^1$ 966 429 BCC 370.8 1 153	Magnesium 24.305 0 12 Mg $[Ne]3s^2$ 1 738 321 HEX 1.624 923 1 363														
4	Potassium 39.098 3 19 K $[Ar]4s^1$ 862 532 BCC 336.5 1 033	Calcium 40.078 20 Ca $[Ar]4s^2$ 1 530 559 FCC 1 113 1 757	Scandium 44.955 910 21 Sc $[Ca]3d^1$ 2 992 331 HEX 1.592 1 813 3 103	Titanium 47.867 22 Ti $[Ca]3d^2$ 4 508 295 HEX 1.587 1 943 3 563	Vanadium 50.941 5 23 V $[Ca]3d^3$ 6 090 302 BCC 2 193 3 673	Chromium 51.996 1 24 Cr $[Ar]3d^5 4s^1$ 7 194 388 BCC 2 180 2 943	Manganese 54.938 049 25 Mn $[Ca]3d^5$ 7 473 891 FCC 1 523 2 333	Iron 55.845 26 Fe $[Ca]3d^6$ 7 873 287 BCC 1 813 3 133	Cobalt 58.933 200 27 Co $[Ca]3d^7$ 8 800 (ϵ) 251 HEX 1.623 1 768 3 203							
5	Rubidium 85.467 8 37 Rb $[Kr]5s^1$ 1 533 571 BCC 312.4 963.1	Strontium 87.62 38 Sr $[Kr]5s^2$ 2 583 608 FCC 1 050 1 653	Yttrium 88.905 85 39 Y $[Sr]4d^1$ 4 475 365 HEX 1.571 1 798 3 613	Zirconium 91.224 40 Zr $[Sr]4d^2$ 6 507 323 HEX 1.593 2 123 4 673	Niobium 92.906 38 41 Nb $[Kr]4d^5 5s^1$ 8 578 330 BCC 2 750 4 973	Molybdenum 95.94 42 Mo $[Kr]4d^5 5s^1$ 10 222 315 BCC 2 896 4 913	Technetium [98] 43 Tc $[Sr]4d^5$ 11 496 274 HEX 1.604 2 433 4 533	Ruthenium 101.07 44 Ru $[Kr]4d^7 5s^1$ 12 360 270 HEX 1.582 2 603 4 423	Rhodium 102.905 50 45 Rh $[Kr]4d^8 5s^1$ 12 420 380 FCC 2 236 3 973							
6	Cesium 132.905 45 55 Cs $[Xe]6s^1$ 1 900 614 BCC 301.6 943.2	Barium 137.327 56 Ba $[Xe]6s^2$ 3 594 502 BCC 1 001 2 173	Lanthanides 57 – 71	Hafnium 178.49 72 Hf $[Yb]5d^2$ 13 276 319 HEX 1.581 2 503 4 873	Tantalum 180.947 9 73 Ta $[Yb]5d^3$ 16 670 330 BCC 3 293 5 833	Tungsten 183.84 74 W $[Yb]5d^4$ 19 254 316 BCC 3 695 5 823	Rhenium 186.207 75 Re $[Yb]5d^5$ 21 023 276 HEX 1.615 3 459 5 873	Osmium 190.23 76 Os $[Yb]5d^6$ 22 580 273 HEX 1.606 3 303 5 273	Iridium 192.217 77 Ir $[Yb]5d^7$ 22 550 384 FCC 2 720 4 703							
7	Francium [223] 87 Fr $[Rn]7s^1$ 300 923	Radium [226] 88 Ra $[Rn]7s^2$ 5 000 515 BCC 973 1 773	Actinides 89 – 103	Rutherfordium [261] 104 Rf $[Ra]5f^{14} 6d^2$	Dubnium [262] 105 Db $[Ra]5f^{14} 6d^3 ?$	Seaborgium [263] 106 Sg $[Ra]5f^{14} 6d^4 ?$	Bohrium [264] 107 Bh $[Ra]5f^{14} 6d^5 ?$	Hassium [265] 108 Hs $[Ra]5f^{14} 6d^6 ?$	Meitnerium [268] 109 Mt $[Ra]5f^{14} 6d^7 ?$							

Lanthanides

Actinides

Lanthanum 138.905 5 57 La $[Ba]5d^1$ 6 174 377 HEX 3.23 1 193 3 733	Cerium 140.116 58 Ce $[Ba]4f^1 5d^1$ 6 711 (γ) 516 FCC 1 073 3 693	Praseodymium 140.907 65 59 Pr $[Ba]4f^3$ 6 779 367 HEX 3.222 1 204 3 783	Neodymium 144.24 60 Nd $[Ba]4f^4$ 7 000 366 HEX 3.225 1 289 3 343	Promethium [145] 61 Pm $[Ba]4f^5$ 7 220 365 HEX 3.19 1 415 3 573	Samarium 150.36 62 Sm $[Ba]4f^6$ 7 536 363 HEX 7.221 1 443 2 063
Actinium [227] 89 Ac $[Ra]6d^1$ 10 060 531 FCC 1 323 3 473	Thorium 232.038 1 90 Th $[Ra]6d^2$ 11 725 508 FCC 2 023 5 063	Protactinium 231.035 88 91 Pa $[Rn]5f^3 6d^1 7s^2$ 15 370 392 TET 0.825 1 843 4 273	Uranium 238.028 9 92 U $[Rn]5f^3 6d^1 7s^2$ 19 050 285 ORC 1.736 2.056 1 405.3 4 403	Neptunium [237] 93 Np $[Rn]5f^4 6d^1 7s^2$ 20 450 666 ORC 0.733 0.709 913 4 173	Plutonium [244] 94 Pu $[Rn]5f^6 7s^2$ 19 816 618 MCL 1.773 0.780 913 3 503



