	1 hydrogen hydrogen hydrogen hydrogen 1 1 1 1 1 1 1 1 1 1 1 1 1
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57 Lanthanum	Atomic Syn na Atomic Syn ra Atomic 12 Ti titanium 49 40 40 27 72 72 72 72 72 72 72 72 72 72 72 72
58 Secritum 140	Key Atomic number Symbol name Atomic weight Atomic weight Atomic weight Ti 49 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
59 Pr Praseodymium 141	6 molybdenum 96 molybdenum 96 seaborgium 269
neodymium 144	25 Mr mangane S5 S5 S5 S5 S5 S5 S5 S5 S5 S5
61 promethium	Periodic Per
62 samarium	9 9 103 109 109 109
63 europium 152	Table 10 11 10 11 11 110 11 110 110 11 110 110 11 110 110 11 110 110 11 110 110 11 110 110 11 110 110 11 110 110 11 110 110 11 110 110 11 110 111 110 110 111 110 110 1110 110 110 1110 110 110 1110 110 110 1110 110 110 1110 110 110 1110 110 110 1110 110 110 1110 110 110 1110 110 110 1110 110 110 1110 110 110 1110 110 110 1110 110 110 1110 110 110
64 Gd gadolinium 157	29 29 29 29 29 29 29 29 29 29 29 29 29 2
65 terbium	30 30 30
66 Dy dysprosium	aluminialum 13 13 13 13 13 13 13 13 13 13
67 Holmium 165	14 6 6 6 6 6 7 12 12 12 12 12 12 12 12 12 12
erbium 167	15 15 15 15 15 15 15 15 15 15
69 Tm thulium	16 0 <
70 Yb ytterbium 173	17 17 9 9 19 17 19 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 127 1127 127 1127 127 1127 127 1127 127 1127 127 1127 127 1127 127 1127 127 1127 127 1127 127 121 127 122 110 1117 127 1127 127 113 127 114 127 117 127 118 127 119 127 129 127 129 127
71 Lu Iutetium 175	18 2 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 11

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89 AC 227

90 Th thorium 232

91 **Pa** protactinium 231

92 uranium 238

93 Np neptunium 237

94 **Pu** ^{plutonium} 244

95 **Am** americium 243

96 CM curium 247

97 **BK** berkelium 247

98 **Cf** 251

99 ES einsteinium 252

100 Fm fermium 257

101 Md mendelevium 258

102 **NO** nobelium 259

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