

RADIOACTIVE ELEMENTS

1 H Hydrogen Stable																	2 He Helium Stable
3 Li Lithium Stable	4 Be Beryllium Stable											5 B Boron Stable	6 C Carbon Stable	7 N Nitrogen Stable	8 O Oxygen Stable	9 F Fluorine Stable	10 Ne Neon Stable
11 Na Sodium Stable	12 Mg Magnesium Stable											13 Al Aluminum Stable	14 Si Silicon Stable	15 P Phosphorus Stable	16 S Sulfur Stable	17 Cl Chlorine Stable	18 Ar Argon Stable
19 K Potassium Stable	20 Ca Calcium Stable	21 Sc Scandium Stable	22 Ti Titanium Stable	23 V Vanadium Stable	24 Cr Chromium Stable	25 Mn Manganese Stable	26 Fe Iron Stable	27 Co Cobalt Stable	28 Ni Nickel Stable	29 Cu Copper Stable	30 Zn Zinc Stable	31 Ga Gallium Stable	32 Ge Germanium Stable	33 As Arsenic Stable	34 Se Selenium Stable	35 Br Bromine Stable	36 Kr Krypton Stable
37 Rb Rubidium Stable	38 Sr Strontium Stable	39 Y Yttrium Stable	40 Zr Zirconium Stable	41 Nb Niobium Stable	42 Mo Molybdenum Stable	43 Tc Technetium 4.21 x 10 ⁶ y	44 Ru Ruthenium Stable	45 Rh Rhodium Stable	46 Pd Palladium Stable	47 Ag Silver Stable	48 Cd Cadmium Stable	49 In Indium Stable	50 Sn Tin Stable	51 Sb Antimony Stable	52 Te Tellurium Stable	53 I Iodine Stable	54 Xe Xenon Stable
55 Cs Cesium Stable	56 Ba Barium Stable	57-71	72 Hf Hafnium Stable	73 Ta Tantalum Stable	74 W Tungsten Stable	75 Re Rhenium Stable	76 Os Osmium Stable	77 Ir Iridium Stable	78 Pt Platinum Stable	79 Au Gold Stable	80 Hg Mercury Stable	81 Tl Thallium Stable	82 Pb Lead Stable	83 Bi Bismuth Stable	84 Po Polonium 102 y	85 At Astatine 8.1 hr	86 Rn Radon 3.82 d
87 Fr Francium 22 min	88 Ra Radium 1600 y	89-103	104 Rf Rutherfordium 13 hr	105 Db Dubnium 32 hr	106 Sg Seaborgium 2.4 min	107 Bh Bohrium 17 s	108 Hs Hassium 9.7 s	109 Mt Meitnerium 0.72 s	110 Ds Darmstadtium 11.1 s	111 Rg Roentgenium 26 s	112 Cn Copernicium 29 s	113 Nh Nihonium 0.48 s	114 Fl Flerovium 2.65 s	115 Mc Moscovium 87 ms	116 Lv Livermorium 61 ms	117 Ts Tennessine unknown	118 Og Oganesson 1.8 ms

57 La Lanthanum Stable	58 Ce Cerium Stable	59 Pr Praseodymium Stable	60 Nd Neodymium Stable	61 Pm Promethium 17.4 y	62 Sm Samarium Stable	63 Eu Europium Stable	64 Gd Gadolinium Stable	65 Tb Terbium Stable	66 Dy Dysprosium Stable	67 Ho Holmium Stable	68 Er Erbium Stable	69 Tm Thulium Stable	70 Yb Ytterbium Stable	71 Lu Lutetium Stable
89 Ac Actinium 21.77 y	90 Th Thorium 7.54 x 10 ⁴ y	91 Pa Protactinium 3.28 x 10 ⁴ y	92 U Uranium 2.34 x 10 ⁷ y	93 Np Neptunium 2.14 x 10 ⁶ y	94 Pu Plutonium 8.00 x 10 ⁷ y	95 Am Americium 7370 y	96 Cm Curium 1.56 x 10 ⁷ y	97 Bk Berkelium 1380 y	98 Cf Californium 898 y	99 Es Einsteinium 471.7 d	100 Fm Fermium 100.5 d	101 Md Mendelevium 51.5 d	102 No Nobelium 58 min	103 Lr Lawrencium 4 hr