THE Elements

NOVA PBS

pbs.org/nova/elements

1 1.008 H Hydrogen																	2 4.003 He Helium
3 6.941 Li Lithium	4 9.012 Be Beryllium											5 10.81 B Boron	6 12.01 C Carbon	7 14.01 N Nitrogen	8 16.00 O Oxygen	9 19.00 F Fluorine	10 20.18 Ne Neon
11 22.99 Na Sodium	12 24.31 Mg Magnesium											13 26.98 Al Aluminum	14 28.09 Si Silicon	15 30.97 P Phosphorus	16 32.07 S Sulfur	17 35.45 Cl Chlorine	18 39.95 Ar Argon
19 39.10 K Potassium	20 40.08 Ca Calcium	21 44.96 Sc Scandium	22 47.87 Ti Titanium	23 50.94 V Vanadium	24 52.00 Cr Chromium	25 54.94 Mn Manganese	26 55.85 Fe Iron	27 58.93 Co Cobalt	28 58.69 Ni Nickel	29 63.55 Cu Copper	30 65.38 Zn Zinc	31 69.72 Ga Gallium	32 72.64 Ge Germanium	33 74.92 As Arsenic	34 78.96 Se Selenium	35 79.90 Br Bromine	36 83.80 Kr Krypton
37 85.47 Rb Rubidium	38 87.62 Sr Strontium	39 88.91 Y Yttrium	40 91.22 Zr Zirconium	41 92.91 Nb Niobium	42 95.96 Mo Molybdenum	43 (98) Tc Technetium	44 101.1 Ru Ruthenium	45 102.9 Rh Rhodium	46 106.4 Pd Palladium	47 107.9 Ag Silver	48 112.4 Cd Cadmium	49 114.8 In Indium	50 118.7 Sn Tin	51 121.8 Sb Antimony	52 127.6 Te Tellurium	53 126.9 I Iodine	54 131.3 Xe Xenon
55 132.9 Cs Cesium	56 137.3 Ba Barium	57-71 *	72 178.5 Hf Hafnium	73 180.9 Ta Tantalum	74 183.8 W Tungsten	75 186.2 Re Rhenium	76 190.2 Os Osmium	77 192.2 Ir Iridium	78 195.1 Pt Platinum	79 197.0 Au Gold	80 200.6 Hg Mercury	81 204.4 Tl Thallium	82 207.2 Pb Lead	83 209.0 Bi Bismuth	84 (209) Po Polonium	85 (210) At Astatine	86 (222) Rn Radon
87 (223) Fr Francium	88 (226) Ra Radium	89-103 **	104 (265) Rf Rutherfordium	105 (268) Db Dubnium	106 (271) Sg Seaborgium	107 (272) Bh Bohrium	108 (277) Hs Hassium	109 (276) Mt Meitnerium	110 (281) Ds Darmstadtium	111 (280) Rg Roentgenium	112 (285) Cn Copernicium	113 (284) Uut Ununtrium	114 (289) Fl Flerovium	115 (288) Uup Ununpentium	116 (293) Lv Livermorium	117 (294) Uus Ununseptium	118 (294) Uuo Ununoctium
		57-71 *	57 138.9 La Lanthanum	58 140.1 Ce Cerium	59 140.9 Pr Praseodymium	60 144.2 Nd Neodymium	61 (145) Pm Promethium	62 150.4 Sm Samarium	63 152.0 Eu Europium	64 157.3 Gd Gadolinium	65 158.9 Tb Terbium	66 162.5 Dy Dysprosium	67 164.9 Ho Holmium	68 167.3 Er Erbium	69 168.9 Tm Thulium	70 173.1 Yb Ytterbium	71 175.0 Lu Lutetium
		89-103 **	89 (227) Ac Actinium	90 232.0 Th Thorium	91 231.0 Pa Protactinium	92 238.0 U Uranium	93 (237) Np Neptunium	94 (244) Pu Plutonium	95 (243) Am Americium	96 (247) Cm Curium	97 (247) Bk Berkelium	98 (251) Cf Californium	99 (252) Es Einsteinium	100 (257) Fm Fermium	101 (258) Md Mendelevium	102 (259) No Nobelium	103 (262) Lr Lawrencium

Atomic Number — 1
Chemical Symbol — H
Chemical Name — Hydrogen
Atomic Weight — 1.008

- ☐ Alkali Metals
- ☐ Alkaline Earth Metals
- ☐ Transition Metals
- ☐ Lanthanides
- ☐ Actinides
- ☐ Other Metals
- ☐ Metalloids
- ☐ Other Nonmetals
- ☐ Halogens
- ☐ Noble Gases

pbs.org/nova/education

DAVID H. KOCH FUND FOR SCIENCE HHMI Corporation for Public Broadcasting LOCKHEED MARTIN ALFRED P. SLOAN FOUNDATION

Series funding for NOVA is provided by David H. Koch, the Howard Hughes Medical Institute, the Corporation for Public Broadcasting, Lockheed Martin Corporation, and PBS viewers. Major funding for "Hunting the Elements" is provided by the Alfred P. Sloan Foundation. Additional funding for "Hunting the Elements" is provided by the U.S. Department of Energy and by the Millicent and Eugene Bell Foundation.

This material is based upon work supported by the Department of Energy under Award Number DE-SC0007358. Disclaimer: This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, or service by trade name, trademark, manufacturer, or otherwise does not necessarily constitute or imply its endorsement, recommendations, or favoring by the United States Government or any agency thereof. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.
CREDITS: Atomic weight is consistent with NIST SP 966 (September 20120).