

H

1

HYDROGEN

1.01

Li

3

LITHIUM

6.94

Be

4

BERYLLIUM

9.01

Na

11

SODIUM

22.99

Mg

12

MAGNESIUM

24.31

AT ROOM TEMPERATURE THE ELEMENT IS:

A GAS

A LIQUID

A NATURAL SOLID

A MAN-MADE SOLID (SYNTHETIC)

Symbol

Atomic number

Atomic mass

Element name

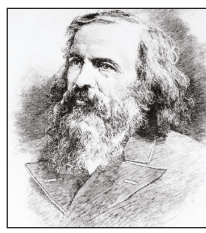
Element form

TUNGSTEN

74

183.85

Periodic Table of the ELEMENTS



DMITRI MENDELEEV (1834 – 1907) CREATOR OF FIRST VERSION OF PERIODIC TABLE
 Dmitri Mendeleev was born in Tobolsk, Siberia, in 1834 and died in 1907. He studied science at St Petersburg University and graduated in 1856. In 1863 he became a professor at the university. Mendeleev is best known for his work on the Periodic Table; arranging the 63 known elements into a Periodic Table based on atomic mass, which he published in his 1869 textbook *Principles of Chemistry*. His first Periodic Table was compiled on the basis of arranging the elements in ascending order of atomic weight and grouping them by similarity of properties. He predicted the existence and properties of new elements and pointed out accepted atomic weights that were in error. This organisation surpassed attempts at classification by French geologist Alexandre-Émile Béguyer de Chancourtois and English chemist John Newlands.

H 1 HYDROGEN 1.01 Li 3 LITHIUM 6.94 Be 4 BERYLLIUM 9.01 Na 11 SODIUM 22.99 Mg 12 MAGNESIUM 24.31	He 2 HELIUM 4.00 Ne 10 NEON 20.18 Ar 18 ARGON 39.95 Kr 36 KRYPTON 83.80 Xe 54 XENON 131.29
B 5 BORON 10.81 C 6 CARBON 12.01 N 7 NITROGEN 14.01 O 8 OXYGEN 16.00 F 9 FLUORINE 19.00	Si 14 SILICON 28.09 P 15 PHOSPHORUS 30.97 S 16 SULPHUR 32.06 Cl 17 CHLORINE 35.45
Al 13 ALUMINIUM 26.98 Ge 32 GERMANIUM 72.61 As 33 ARSENIC 74.92 Se 34 SELENIUM 78.96 Br 35 BROMINE 79.90	Zn 30 ZINC 65.39 Ga 31 GALLIUM 69.72 Ge 32 GERMANIUM 72.61 As 33 ARSENIC 74.92 Se 34 SELENIUM 78.96 Br 35 BROMINE 79.90
K 19 POTASSIUM 39.10 Ca 20 CALCIUM 40.08 Sc 21 SCANDIUM 44.96 Ti 22 TITANIUM 47.88 V 23 VANADIUM 50.94	Cr 24 CHROMIUM 52.00 Mn 25 MANGANESE 54.94 Fe 26 IRON 55.85 Co 27 COBALT 58.93 Ni 28 NICKEL 58.69
Rb 37 RUBIDIUM 85.47 Sr 38 STRONTIUM 87.62 Y 39 YTTRIUM 88.91 Zr 40 ZIRCONIUM 91.22 Nb 41 NIوبيUM 92.91	Mo 42 MOLYBDENUM 95.94 Tc 43 TECHNETIUM (98) Ru 44 RUTHENIUM 101.07 Rh 45 RHODIUM 102.91 Pd 46 PALLADIUM 106.42
Cs 55 CAESIUM 132.91 Ba 56 BARIUM 137.33 La 57 LANTHANUM 138.91 Ce 58 CERIUM 140.12 Pr 59 PRASEODYMIUM 140.90	Nd 60 NEODYMIUM 144.24 Pm 61 PROMETHIUM (145) Sm 62 SAMARIUM 150.36 Eu 63 EUROPIUM 151.96 Gd 64 GADOLINIUM 157.25
Fr 87 FRANCIUM (223) Ra 88 RADIUM (226) Ac 89 ACTINIUM (227.02) Th 90 THORIUM 232.03 Pa 91 PROTACTINIUM 231.03	U 92 URANIUM 238.02 Np 93 NEPTUNIUM (237) Pu 94 PLUTONIUM (244) Am 95 AMERICIUM (243) Cm 96 CURIUM (247)
La 57 LANTHANUM 138.91 Ce 58 CERIUM 140.12 Pr 59 PRASEODYMIUM 140.90 Nd 60 NEODYMIUM 144.24 Pm 61 PROMETHIUM (145)	Sm 62 SAMARIUM 150.36 Eu 63 EUROPIUM 151.96 Gd 64 GADOLINIUM 157.25 Tb 65 TERBIUM 158.92 Dy 66 DYSPROSIUM 162.50
Ac 89 ACTINIUM (227.02) Th 90 THORIUM 232.03 Pa 91 PROTACTINIUM 231.03 U 92 URANIUM 238.02 Np 93 NEPTUNIUM (237)	Pu 94 PLUTONIUM (244) Am 95 AMERICIUM (243) Cm 96 CURIUM (247) Bk 97 BERKELIUM (247) Cf 98 CALIFORNIUM (251)
Es 99 EINSTEINIUM (252) Fm 100 FERMIUM (257) Md 101 MENDELEVIUM (258) No 102 NOBELIUM (259) Lr 103 LAWRENCIUM (262)	Uuo 118 UNUNOCTIUM (294)

ALKALI METALS

NON-METAL

ALKALINE EARTH

HALOGEN

TRANSITION METAL

NOBLE GAS

BASIC METAL

LANTHANIDES

SEMI-METAL

ACTINIDES