

# Periodic Table

Name \_\_\_\_\_

Part of the Periodic Table, Through Atomic Number 54

I	II	III	IV	V	VI	VII	VIII										
H	He	B	C	N	O	F	Ne										
Li	Be	Al	Si	P	S	Cl	Ar										
Na	Mg	Al	Si	P	S	Cl	Ar										
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Cobalt	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe
Cs	Ba	La	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn
Fr	Ra	Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Mn	U	At	Xe

atomic number \_\_\_\_\_  
symbol of element \_\_\_\_\_  
element name \_\_\_\_\_

Elements above and to the right of this line are nonmetals.  
Elements below and to the left of this line are metals.

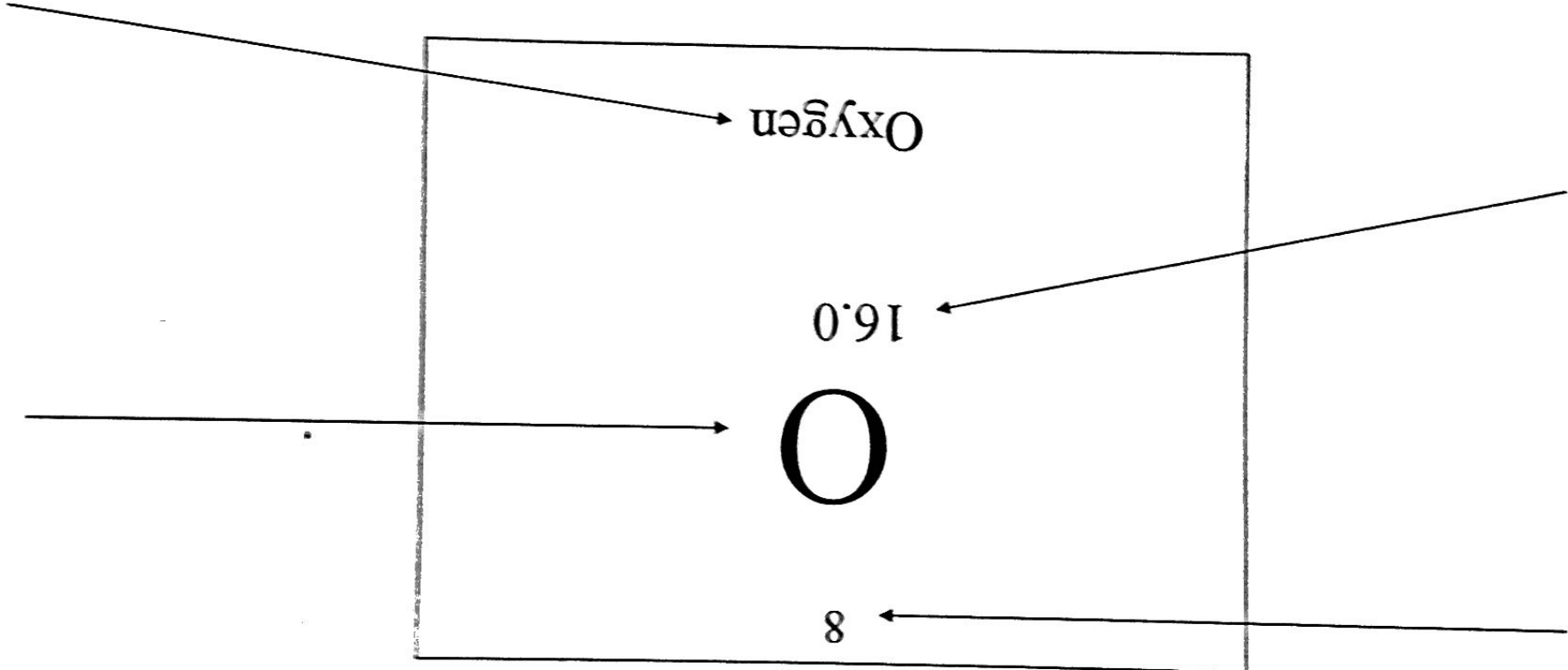
Scientists have organized all the elements in a chart called the **periodic table**. It lists all of the elements in rows and columns. Elements similar to one another are in the same column. Scientists can tell a lot about an element from where it is found in the periodic table.

The elements are arranged in rows according to their **atomic numbers**. The atomic number of an element is the number of protons in the nucleus of one of its atoms. Oxygen has eight protons. The atomic number of oxygen is 8. No two elements have the same atomic number.

All elements in the periodic table have symbols. O is the symbol for oxygen. Na is the symbol for sodium. Scientists use these symbols in formulas. The formula for water is  $H_2O$ . The "H" stands for hydrogen. The "2" means there are two hydrogen atoms for every oxygen atom.

Fill in the missing words.

1. No two elements have the same \_\_\_\_\_ number.  
(periodic, atomic)
2. Every element has a \_\_\_\_\_. (symbol, formula)
3. O is the symbol for \_\_\_\_\_. (water, oxygen)



Name: \_\_\_\_\_

# Periodic Table of the Elements

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 About Chemistry

1 H 1.0 Hydrogen	2 He 4.0 Helium	3 Li 7.0 Lithium	4 Be 9.0 Beryllium	5 B 11 Boron	6 C 12 Carbon	7 N 14 Nitrogen	8 O 16 Oxygen	9 F 19 Fluorine	10 Ne 20 Neon	11 Na 23 Sodium	12 Mg 24 Magnesium	13 Al 27 Aluminum	14 Si 28 Silicon	15 P 31 Phosphorus	16 S 32 Sulfur	17 Cl 35 Chlorine	18 Ar 40 Argon	19 K 39 Potassium	20 Ca 40 Calcium	21 Sc 45 Scandium	22 Ti 48 Titanium	23 V 51 Vanadium	24 Cr 52 Chromium	25 Mn 55 Manganese	26 Fe 56 Iron	27 Co 59 Cobalt	28 Ni 59 Nickel	29 Cu 64 Copper	30 Zn 65 Zinc	31 Ga 70 Gallium	32 Ge 73 Germanium	33 As 75 Arsenic	34 Se 79 Selenium	35 Br 80 Bromine	36 Kr 84 Krypton	37 Rb 85 Rubidium	38 Sr 88 Strontium	39 Y 89 Yttrium	40 Zr 91 Zirconium	41 Nb 93 Niobium	42 Mo 96 Molybdenum	43 Tc 98 Technetium	44 Ru 101 Ruthenium	45 Rh 103 Rhodium	46 Pd 106 Palladium	47 Ag 108 Silver	48 Cd 112 Cadmium	49 In 115 Indium	50 Sn 119 Tin	51 Sb 122 Antimony	52 Te 128 Tellurium	53 I 127 Iodine	54 Xe 136 Xenon	55 Cs 133 Cesium	56 Ba 137 Barium	57-71 Lanthanides	58 La 139 Lanthanum	59 Ce 140 Cerium	60 Pr 141 Praseodymium	61 Nd 144 Neodymium	62 Pm 145 Promethium	63 Sm 150 Samarium	64 Eu 152 Europium	65 Gd 157 Gadolinium	66 Tb 159 Terbium	67 Dy 163 Dysprosium	68 Ho 165 Holmium	69 Er 167 Erbium	70 Tm 169 Thulium	71 Yb 173 Ytterbium	72 Lu 175 Lutetium	73 Hf 178 Hafnium	74 Ta 181 Tantalum	75 W 184 Tungsten	76 Os 190 Osmium	77 Ir 192 Iridium	78 Pt 195 Platinum	79 Au 197 Gold	80 Hg 201 Mercury	81 Tl 204 Thallium	82 Pb 207 Lead	83 Bi 209 Bismuth	84 Po 209 Polonium	85 At 210 Astatine	86 Rn 222 Radon	87 Fr 223 Francium	88 Ra 226 Radium	89-103 Actinides	90 Th 232 Thorium	91 Pa 231 Protactinium	92 U 238 Uranium	93 Np 237 Neptunium	94 Pu 244 Plutonium	95 Am 243 Americium	96 Cm 247 Curium	97 Bk 247 Berkelium	98 Cf 251 Californium	99 Es 252 Einsteinium	100 Fm 257 Fermium	101 Md 258 Mendelevium	102 No 259 Nobelium	103 Lr 262 Lawrencium
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Lanthanides  
 Actinides

# The Periodic Table of the Elements, in Pictures

18 Noble Gases	1 Helium	2 Hydrogen	3 Lithium	4 Beryllium	5 Boron	6 Carbon	7 Nitrogen	8 Oxygen	9 Fluorine	10 Neon	11 Sodium	12 Magnesium	13 Aluminum	14 Silicon	15 Phosphorus	16 Sulfur	17 Chlorine	18 Argon	19 Potassium	20 Calcium	21 Scandium	22 Titanium	23 Vanadium	24 Chromium	25 Manganese	26 Iron	27 Cobalt	28 Nickel	29 Copper	30 Zinc	31 Gallium	32 Germanium	33 Arsenic	34 Selenium	35 Bromine	36 Krypton	37 Rubidium	38 Strontium	39 Yttrium	40 Zirconium	41 Niobium	42 Molybdenum	43 Technetium	44 Ruthenium	45 Rhodium	46 Palladium	47 Silver	48 Cadmium	49 Indium	50 Tin	51 Antimony	52 Tellurium	53 Xenon	54 Cesium	55 Barium	56 Lanthanum	57-71 Rare Earth Metals	72 Hafnium	73 Tantalum	74 Tungsten	75 Rhenium	76 Osmium	77 Iridium	78 Platinum	79 Gold	80 Mercury	81 Thallium	82 Lead	83 Bismuth	84 Polonium	85 Astatine	86 Radon	87 Francium	88 Radium	89-103 Actinide Metals	104 Rutherfordium	105 Dubnium	106 Seaborgium	107 Bohrium	108 Hassium	109 Meitnerium	110 Darmstadtium	111 Roentgenium	112 Copernicium	113 Nihonium	114 Flerovium	115 Moscovium	116 Livermorium	117 Tennessine	118 Oganesson
1 Alkali Metals	2 Alkali Earth Metals	3 Salt	4 Lithium Batteries	5 Beryllium Batteries	6 Chlorophyll	7 Sports Equipment	8 Basis of Life's Molecules	9 Air	10 Toothpaste	11 Advertising Signs	12 Sun and Stars	13 Alkali	14 Emeralds	15 Magnesium	16 Chlorophyll	17 Sulfur	18 Chlorine	19 Argon	20 Potassium	21 Calcium	22 Scandium	23 Titanium	24 Vanadium	25 Chromium	26 Iron	27 Cobalt	28 Nickel	29 Copper	30 Zinc	31 Gallium	32 Germanium	33 Arsenic	34 Selenium	35 Bromine	36 Krypton	37 Rubidium	38 Strontium	39 Yttrium	40 Zirconium	41 Niobium	42 Molybdenum	43 Technetium	44 Ruthenium	45 Rhodium	46 Palladium	47 Silver	48 Cadmium	49 Indium	50 Tin	51 Antimony	52 Tellurium	53 Xenon	54 Cesium	55 Barium	56 Lanthanum	57-71 Rare Earth Metals	72 Hafnium	73 Tantalum	74 Tungsten	75 Rhenium	76 Osmium	77 Iridium	78 Platinum	79 Gold	80 Mercury	81 Thallium	82 Lead	83 Bismuth	84 Polonium	85 Astatine	86 Radon	87 Francium	88 Radium	89-103 Actinide Metals	104 Rutherfordium	105 Dubnium	106 Seaborgium	107 Bohrium	108 Hassium	109 Meitnerium	110 Darmstadtium	111 Roentgenium	112 Copernicium	113 Nihonium	114 Flerovium	115 Moscovium	116 Livermorium	117 Tennessine	118 Oganesson	

71 Lutetium	70 Ytterbium	69 Thulium	68 Erbium	67 Holmium	66 Dysprosium	65 Terbium	64 Gadolinium	63 Europium	62 Samarium	61 Promethium	60 Neodymium	59 Praseodymium	58 Cerium	57 Lanthanum	56 Lanthanum	55 Barium	54 Cesium	53 Xenon	52 Tellurium	51 Antimony	50 Tin	49 Indium	48 Cadmium	47 Silver	46 Palladium	45 Rhodium	44 Ruthenium	43 Technetium	42 Molybdenum	41 Niobium	40 Zirconium	39 Yttrium	38 Strontium	37 Rubidium	36 Krypton	35 Bromine	34 Selenium	33 Arsenic	32 Germanium	31 Gallium	30 Zinc	29 Copper	28 Nickel	27 Cobalt	26 Iron	25 Manganese	24 Chromium	23 Vanadium	22 Titanium	21 Scandium	20 Calcium	19 Potassium	18 Argon	17 Chlorine	16 Sulfur	15 Phosphorus	14 Silicon	13 Aluminum	12 Magnesium	11 Sodium	10 Neon	9 Fluorine	8 Oxygen	7 Nitrogen	6 Carbon	5 Boron	4 Beryllium	3 Lithium	2 Helium	1 Hydrogen
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