

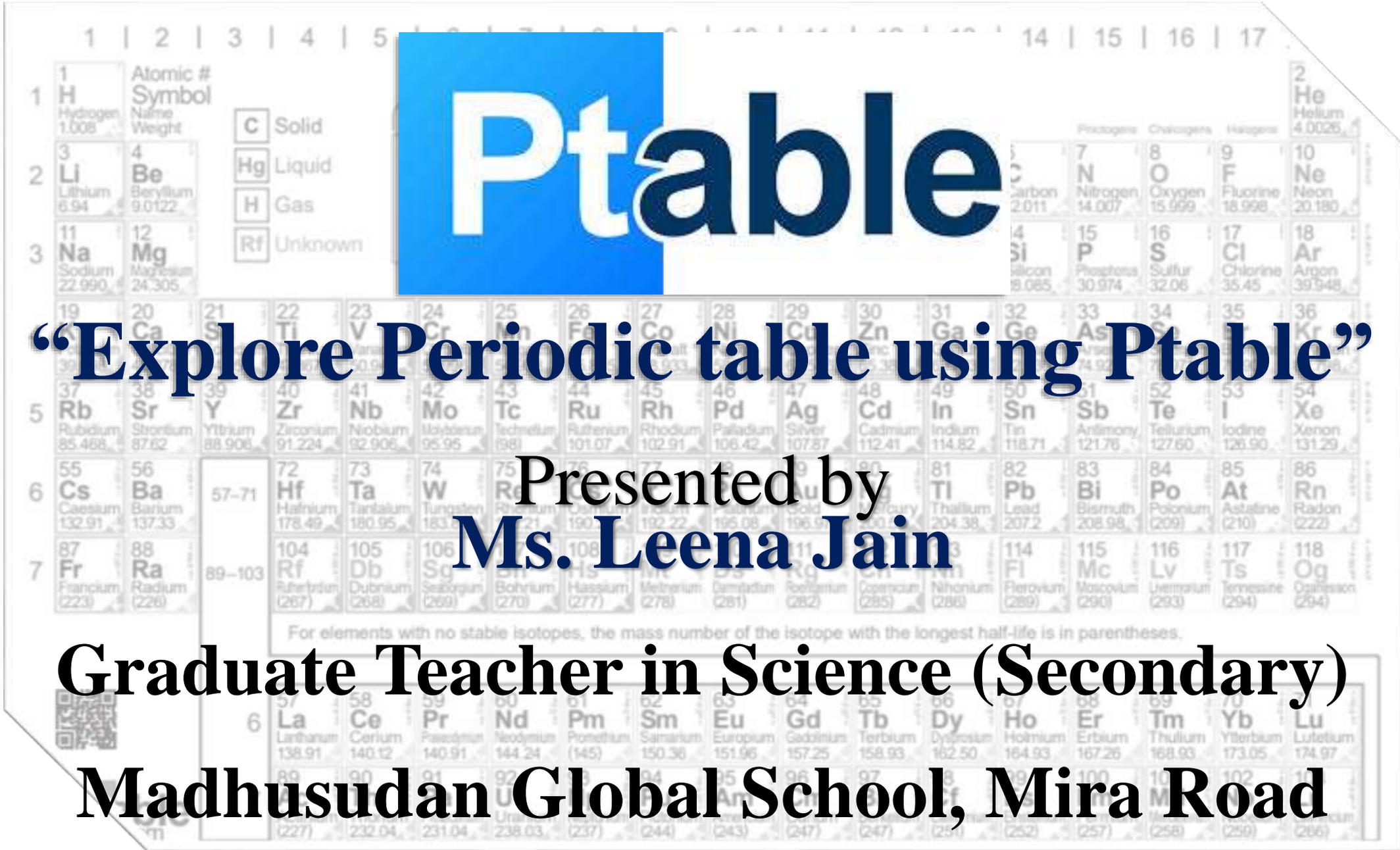
Ptable

“Explore Periodic table using Ptable”

Presented by
Ms. Leena Jain

Graduate Teacher in Science (Secondary)

Madhusudan Global School, Mira Road



□ What is Ptable?

- **Ptable** is a website that offers a free, layered, and interactive periodic table.
- The main page displays the periodic table, which you can click to get Wikipedia definitions.
- You can learn about the 18 groups of elements, interactively explore 16 properties and their sub-properties, view images of orbitals, list selected or all isotopes, and iterate compounds, plus much more.
- It is an amazing educational website for young kids to learn the elements and older kids to help them with their chemistry classes.

□ Ptable in Education

- Ptable is awesome for kids truly interested in chemistry or who have a parent who wants to get them interested.
- The sheer quantity of information about each element, from atomic number to abundance in the universe, is quite enough, but then add color codes, dynamic *and* interactive data, links to a complete set of videos and podcasts from distinguished sources, and striking and orderable images and posters, and you've got a website with some serious depth.

□ Creator of Ptable

- **Michael Dayah** created the Ptable in October 1997, which holds copyright and trademark for its creation but is free to all for the use and application.
- Ptable, in Dayah's own words, makes "Mendeleev's creation come alive."
- One can also install for computer or mobile and work offline. It also supports iOS and Android based devices and is quite adaptable.

How to get started with Ptable on Computer?

← → ↻ google.com/search?sxsr=AleKk03z_29nMdtN-N16I7jAiL0DTC2aAw%3A1601051174697&source=hp&ei=JhpuX-m_J_uW4-EP3bGO0AU&q=ptable.com+periodic+table&oq=pta... ☆

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[Periodic Table - Ptable](#)

Interactive **periodic table** showing names, electrons, and oxidation states. Visualize trends, 3D orbitals, isotopes, and mix compounds. Fully descriptive writeups.
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[Dynamic Periodic Table](#)

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Page 1. **PERIODIC TABLE** OF ELEMENTS.
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Ptable **Properties** Electrons Isotopes Compounds Wide

Temperature 0 °C 32 °F 273 K

1 H Hydrogen 1.008

Series: Reactive nonmetals

Write-up: [Hydrogen](#) Wikipedia

State at 0 °C: Gas

Weight: 1.008 u

Energy levels: 1

Electronegativity: 2.20

Melting point: -259.1 °C

Boiling point: -252.9 °C

Electron affinity: 72.8 kJ/mol

Ionization, 1st: 1,312.0 kJ/mol

Radius, calculated: 53 pm

Hardness, Brinell: N/A MPa

Modulus, bulk: N/A GPa

Density, STP: 0.0899 kg/m³

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1 H Hydrogen 1.008	2 He Helium 4.0026																
3 Li Lithium 6.94	4 Be Beryllium 9.0122																
11 Na Sodium 22.990	12 Mg Magnesium 24.305																
19 K Potassium 39.098	20 Ca Calcium 40.078																
37 Rb Rubidium 85.468	38 Sr Strontium 87.62																
55 Cs Caesium 132.91	56 Ba Barium 137.33																
87 Fr Francium (223)	88 Ra Radium (226)																
21 Sc Scandium 44.956	22 Ti Titanium 47.867	23 V Vanadium 50.942	24 Cr Chromium 51.996	25 Mn Manganese 54.938	26 Fe Iron 55.845	27 Co Cobalt 58.933	28 Ni Nickel 58.693	29 Cu Copper 63.546	30 Zn Zinc 65.38	31 Ga Gallium 69.723	32 Ge Germanium 72.630	33 As Arsenic 74.922	34 Se Selenium 78.971	35 Br Bromine 79.904	36 Kr Krypton 83.798	37 Rb Rubidium 85.468	38 Sr Strontium 87.62
39 Y Yttrium 88.906	40 Zr Zirconium 91.224	41 Nb Niobium 92.906	42 Mo Molybdenum 95.95	43 Tc Technetium (98)	44 Ru Ruthenium 101.07	45 Rh Rhodium 102.91	46 Pd Palladium 106.42	47 Ag Silver 107.87	48 Cd Cadmium 112.41	49 In Indium 114.82	50 Sn Tin 118.71	51 Sb Antimony 121.76	52 Te Tellurium 127.60	53 I Iodine 126.90	54 Xe Xenon 131.29	55 Cs Caesium 132.91	56 Ba Barium 137.33
57-71 La-Lu Lanthanoids	72 Hf Hafnium 178.49	73 Ta Tantalum 180.95	74 W Tungsten 183.84	75 Re Rhenium 186.21	76 Os Osmium 190.23	77 Ir Iridium 192.22	78 Pt Platinum 195.08	79 Au Gold 196.97	80 Hg Mercury 200.59	81 Tl Thallium 204.38	82 Pb Lead 207.2	83 Bi Bismuth 208.98	84 Po Polonium (209)	85 At Astatine (210)	86 Rn Radon (222)	87 Fr Francium (223)	88 Ra Radium (226)
89-103 Ac-Lr Actinoids	104 Rf Rutherfordium (267)	105 Db Dubnium (268)	106 Sg Seaborgium (269)	107 Bh Bohrium (270)	108 Hs Hassium (277)	109 Mt Meitnerium (278)	110 Ds Darmstadtium (281)	111 Rg Roentgenium (282)	112 Cn Copernicium (285)	113 Nh Nihonium (286)	114 Fl Flerovium (289)	115 Mc Moscovium (290)	116 Lv Livermorium (293)	117 Ts Tennessine (294)	118 Og Oganesson (294)	89-103 Ac-Lr Actinoids	89-103 Ac-Lr Actinoids
For elements with no stable isotopes, the mass number of the isotope with the longest half-life is in parentheses.																	
57 La Lanthanum 138.91	58 Ce Cerium 140.12	59 Pr Praseodymium 140.91	60 Nd Neodymium 144.24	61 Pm Promethium (145)	62 Sm Samarium 150.36	63 Eu Europium 151.96	64 Gd Gadolinium 157.25	65 Tb Terbium 158.93	66 Dy Dysprosium 162.50	67 Ho Holmium 164.93	68 Er Erbium 167.26	69 Tm Thulium 168.93	70 Yb Ytterbium 173.05	71 Lu Lutetium 174.97	89-103 Ac-Lr Actinoids	89-103 Ac-Lr Actinoids	89-103 Ac-Lr Actinoids
89 Ac Actinium (227)	90 Th Thorium 232.04	91 Pa Protactinium 231.04	92 U Uranium 238.03	93 Np Neptunium (237)	94 Pu Plutonium (244)	95 Am Americium (243)	96 Cm Curium (247)	97 Bk Berkelium (247)	98 Cf Californium (251)	99 Es Einsteinium (252)	100 Fm Fermium (257)	101 Md Mendelevium (258)	102 No Nobelium (259)	103 Lr Lawrencium (266)	89-103 Ac-Lr Actinoids	89-103 Ac-Lr Actinoids	89-103 Ac-Lr Actinoids

PROPERTIES - It displays the physical and chemical properties of the elements

1 1

H

Hydrogen

1.008

Oxidation states	-1, 1
Configuration	1s ¹
Expanded	1s ¹
Energy levels	1
Quantum numbers	$l=0, m=0, n=1$



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

Protogens Chalcogens Halogens

Atomic Symbol Name Weight

s block

p block

d block

f block

1 H Hydrogen -1.1	2 He Helium											13 B Boron 3	14 C Carbon -4.4	15 N Nitrogen -3.3 5	16 O Oxygen -2	17 F Fluorine -1	18 Ne Neon																											
3 Li Lithium 1	4 Be Beryllium 2											31 Al Aluminium 3	32 Si Silicon -4.4	33 P Phosphorus -3.3 5	34 S Sulfur -2.2 4 6	35 Cl Chlorine -1.1 3 5 7	36 Ar Argon																											
11 Na Sodium 1	12 Mg Magnesium 2											49 In Indium 3	50 Sn Tin -4.2 4	51 Sb Antimony -3.3 5	52 Te Tellurium -2.2 4 6	53 I Iodine -1.1 3 5 7	54 Xe Xenon 2.4 6																											
19 K Potassium 1	20 Ca Calcium 2	21 Sc Scandium 3	22 Ti Titanium 4	23 V Vanadium 5	24 Cr Chromium 3.6	25 Mn Manganese 2.4 7	26 Fe Iron 2.3	27 Co Cobalt 2.3	28 Ni Nickel 2	29 Cu Copper 2	30 Zn Zinc 2	37 Rb Rubidium 1	38 Sr Strontium 2	39 Y Yttrium 3	40 Zr Zirconium 4	41 Nb Niobium 5	42 Mo Molybdenum 4.6	43 Tc Technetium 4.7	44 Ru Ruthenium 3.4	45 Rh Rhodium 3	46 Pd Palladium 2.4	47 Ag Silver 1	48 Cd Cadmium 2	55 Cs Caesium 1	56 Ba Barium 2	57-71	72 Hf Hafnium 4	73 Ta Tantalum 5	74 W Tungsten 4.6	75 Re Rhenium 4	76 Os Osmium 4	77 Ir Iridium 3.4	78 Pt Platinum 2.4	79 Au Gold 3	80 Hg Mercury 1.2	81 Tl Thallium 1.3	82 Pb Lead 2.4	83 Bi Bismuth 3	84 Po Polonium -2.2 4	85 At Astatine -1.1	86 Rn Radon 2			
87 Fr Francium 1	88 Ra Radium 2	89-103	104 Rf Rutherfordium 4	105 Db Dubnium 5	106 Sg Seaborgium 6	107 Bh Bohrium 7	108 Hs Hassium 8	109 Mt Meitnerium	110 Ds Darmstadtium	111 Rg Roentgenium	112 Cn Copernicium	113 Nh Nihonium	114 Fl Flerovium	115 Mc Moscovium	116 Lv Livermorium	117 Ts Tennessine	118 Og Oganesson																											
																		57 La Lanthanum 3	58 Ce Cerium 3.4	59 Pr Praseodymium 3	60 Nd Neodymium 3	61 Pm Promethium 3	62 Sm Samarium 3	63 Eu Europium 2.3	64 Gd Gadolinium 3	65 Tb Terbium 3	66 Dy Dysprosium 3	67 Ho Holmium 3	68 Er Erbium 3	69 Tm Thulium 3	70 Yb Ytterbium 3	71 Lu Lutetium 3												
																		89 Ac Actinium 3	90 Th Thorium 4	91 Pa Protactinium 5	92 U Uranium 6	93 Np Neptunium 5	94 Pu Plutonium 4	95 Am Americium 3	96 Cm Curium 3	97 Bk Berkelium 3	98 Cf Californium 3	99 Es Einsteinium 3	100 Fm Fermium 3	101 Md Mendelevium 3	102 No Nobelium 2	103 Lr Lawrencium 3												

Oxidation states are the number of electrons added to or removed from an element when it forms a chemical compound.

ELECTRONS - It displays the number of electrons in the orbitals and 3D structure of the elements

7
1
H
Hydrogen
7.052749

Count	7
Write-up	Hydrogen-7
Mass	7.052749 u
Mass excess	49.135 MeV
Binding energy	0.9401 MeV
Abundance	0 %
Half-life	2.3E-11 ps
Decay mode	Neutron emission
Decay width	20 MeV
Specific activity	2.6E33 TBq/g
Magnetic moment	N/A μ_N

☒

α Alpha decay	β^- Beta decay
p Proton emission	β^+ Positron emission
n Neutron emission	ϵ Electron capture
sf Spontaneous fission	Stable

Select an isotope to open its write-up from Wikipedia.

ISOTOPES - It displays the number of isotopes formed and various isotopic properties of the elements

1 1
H
 Hydrogen
 1.008

D ₂ O	heavy water
HO ₂ R	a lipid hydroperoxide
H ₂ O	ice
H ₂ O	steam
H ₂ O	water
H ₂ ¹⁸ O	water-18 O oxidane
³ H ₂ O	water-t2
H ₂ O ₂	hydrogen peroxide
Ag ₂ O	silver(I)oxide
Al(OH) ₃	aluminum hydroxide
As(OH) ₃	arsenious acid

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
 Prictogens Chalcogens Halogens

1 H Hydrogen 1.008	2 He Helium																
3 Li Lithium 6.941	4 Be Beryllium 9.012	5 B Boron 10.811	6 C Carbon 12.011	7 N Nitrogen 14.007	8 O Oxygen 15.999	9 F Fluorine 18.998	10 Ne Neon 20.180										
11 Na Sodium 22.990	12 Mg Magnesium 24.305	13 Al Aluminium 26.982	14 Si Silicon 28.086	15 P Phosphorus 30.974	16 S Sulfur 32.065	17 Cl Chlorine 35.453	18 Ar Argon 39.948										
19 K Potassium 39.098	20 Ca Calcium 40.078	21 Sc Scandium 44.956	22 Ti Titanium 47.883	23 V Vanadium 50.942	24 Cr Chromium 51.996	25 Mn Manganese 54.938	26 Fe Iron 55.845	27 Co Cobalt 58.933	28 Ni Nickel 58.693	29 Cu Copper 63.546	30 Zn Zinc 65.38	31 Ga Gallium 69.723	32 Ge Germanium 72.631	33 As Arsenic 74.922	34 Se Selenium 78.96	35 Br Bromine 79.904	36 Kr Krypton 83.798
37 Rb Rubidium 85.468	38 Sr Strontium 87.62	39 Y Yttrium 88.906	40 Zr Zirconium 91.224	41 Nb Niobium 92.906	42 Mo Molybdenum 95.94	43 Tc Technetium 98	44 Ru Ruthenium 101.07	45 Rh Rhodium 102.906	46 Pd Palladium 106.365	47 Ag Silver 107.868	48 Cd Cadmium 112.411	49 In Indium 114.818	50 Sn Tin 118.710	51 Sb Antimony 121.757	52 Te Tellurium 127.6	53 I Iodine 126.905	54 Xe Xenon 131.29
55 Cs Caesium 132.905	56 Ba Barium 137.327	57-71 Lanthanides	72 Hf Hafnium 178.49	73 Ta Tantalum 180.948	74 W Tungsten 183.84	75 Re Rhenium 186.207	76 Os Osmium 190.23	77 Ir Iridium 192.222	78 Pt Platinum 195.084	79 Au Gold 196.967	80 Hg Mercury 200.59	81 Tl Thallium 204.384	82 Pb Lead 207.2	83 Bi Bismuth 208.98	84 Po Polonium 209	85 At Astatine 210	86 Rn Radon 222
87 Fr Francium 223	88 Ra Radium 226	89-103 Actinides	104 Rf Rutherfordium 261	105 Db Dubnium 262	106 Sg Seaborgium 263	107 Bh Bohrium 264	108 Hs Hassium 277	109 Mt Meitnerium 276	110 Ds Darmstadtium 285	111 Rg Roentgenium 288	112 Cn Copernicium 285	113 Nh Nihonium 284	114 Fl Flerovium 289	115 Mc Moscovium 288	116 Lv Livermorium 293	117 Ts Tennessine 289	118 Og Oganesson 294
			57 La Lanthanum 138.905	58 Ce Cerium 140.12	59 Pr Praseodymium 140.908	60 Nd Neodymium 144.24	61 Pm Promethium 145	62 Sm Samarium 150.36	63 Eu Europium 151.964	64 Gd Gadolinium 157.25	65 Tb Terbium 158.925	66 Dy Dysprosium 162.50	67 Ho Holmium 164.930	68 Er Erbium 167.259	69 Tm Thulium 168.930	70 Yb Ytterbium 173.054	71 Lu Lutetium 174.967
			89 Ac Actinium 227	90 Th Thorium 232.038	91 Pa Protactinium 231.036	92 U Uranium 238.029	93 Np Neptunium 237	94 Pu Plutonium 244	95 Am Americium 243	96 Cm Curium 247	97 Bk Berkelium 247	98 Cf Californium 251	99 Es Einsteinium 252	100 Fm Fermium 257	101 Md Mendeleevium 258	102 No Nobelium 259	103 Lr Lawrencium 260

Numbers in place of weights indicate the number of compounds formed by adding that element to your compound search.

COMPOUNDS - It displays the number of compounds formed and various matches for the selected elements

Temperature  0 °C 32 °F 273 K

1	2											3	4	5	6	7	8	9	10	11	12	13	14	15															
1	H Hydrogen 1.008	Atomic Symbol Name Weight		C Solid	Metals										B Boron 10.81	C Carbon 12.011	N Nitrogen 14.007																						
2	Li Lithium 6.94	Be Beryllium 9.0122		Hg Liquid	Alkali metals	Alkaline earth metals	Lanthanoids	Actinoids	Transition metals	Post-transition metals	Metalloids	Reactive nonmetals	Noble gases	Al Aluminium 26.982	Si Silicon 28.085	P Phosphorus 30.974																							
3	Na Sodium 22.990	Mg Magnesium 24.305		H Gas											Sc Scandium 44.956	Ti Titanium 47.867	V Vanadium 50.942	Cr Chromium 51.996	Mn Manganese 54.938	Fe Iron 55.845	Co Cobalt 58.933	Ni Nickel 58.693	Cu Copper 63.546	Zn Zinc 65.38	Ga Gallium 69.723	Ge Germanium 72.630	As Arsenic 74.922												
4	K Potassium 39.098	Ca Calcium 40.078		Rf Unknown											Y Yttrium 88.906	Zr Zirconium 91.224	Nb Niobium 92.906	Mo Molybdenum 95.95	Tc Technetium (98)	Ru Ruthenium 101.07	Rh Rhodium 102.91	Pd Palladium 106.42	Ag Silver 107.87	Cd Cadmium 112.41	In Indium 114.82	Sn Tin 118.71	Sb Antimony 121.76												
5	Rb Rubidium 85.468	Sr Strontium 87.62	For elements with no stable isotopes, the mass number of the isotope with the longest half-life is in parentheses.																																				
6	Cs Caesium 132.91	Ba Barium 137.33	La Lanthanum 138.91	Ce Cerium 140.12	Pr Praseodymium 140.91	Nd Neodymium 144.24	Pm Promethium (145)	Sm Samarium 150.36	Eu Europium 151.96	Gd Gadolinium 157.25	Tb Terbium 158.93	Dy Dysprosium 162.50	Ho Holmium 164.93	Er Erbium 167.26	Tm Thulium 168.93	Yb Ytterbium 173.05	Lu Lutetium 174.97	Hf Hafnium 178.49	Ta Tantalum 180.95	W Tungsten 183.84	Re Rhenium 186.21	Os Osmium 190.23	Ir Iridium 192.22	Pt Platinum 195.08	Au Gold 196.97	Hg Mercury 200.59	Tl Thallium 204.38	Pb Lead 207.2	Bi Bismuth 208.98										
7	Fr Francium (223)	Ra Radium (226)	Ac Actinium (227)	Th Thorium 232.04	Pa Protactinium 231.04	U Uranium 238.03	Np Neptunium (237)	Pu Plutonium (244)	Am Americium (243)	Cm Curium (247)	Bk Berkelium (247)	Cf Californium (251)	Es Einsteinium (252)	Fm Fermium (257)	Md Mendelevium (258)	No Nobelium (259)	Lr Lawrencium (260)	Rf Rutherfordium (261)	Db Dubnium (268)	Sg Seaborgium (269)	Bh Bohrium (270)	Hs Hassium (277)	Mt Meitnerium (278)	Ds Darmstadtium (281)	Rg Roentgenium (282)	Cn Copernicium (285)	Nh Nihonium (286)	Fl Flerovium (289)	Mc Moscovium (290)										



1
H
Hydrogen
1.008

Series	Reactive nonmetals
Write-up	Hydrogen Wikipedia
State at 0 °C	Gas
Weight	1.008 u
Energy levels	1
Electronegativity	2.20

Melting point	-259.1 °C
Boiling point	-252.9 °C
Electron affinity	72.8 kJ/mol
Ionization, 1st	1,312.0 kJ/mol
Radius, calculated	53 pm
Hardness, Brinell	N/A MPa

Modulus, bulk	N/A GPa
Density, STP	0.0899 kg/m³
Conductivity, thermal	0.1805 W/mK
Heat specific	14,300 J/kgK
Abundance, universe	75 %
Discovered	1766

Temperature - + 0 °C 32 °F 273 K

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1 H Hydrogen 1.008	2 He Helium 4.0026																
3 Li Lithium 6.94	4 Be Beryllium 9.0122																
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		39 Y Yttrium 88.906	40 Zr Zirconium 91.224	41 Nb Niobium 92.906	42 Mo Molybdenum 95.95	43 Tc Technetium (98)	44 Ru Ruthenium 101.07	45 Rh Rhodium 102.91	46 Pd Palladium 106.42	47 Ag Silver 107.87	48 Cd Cadmium 112.41	49 In Indium 114.82	50 Sn Tin 118.71	51 Sb Antimony 121.76	52 Te Tellurium 127.60	53 I Iodine 126.90	54 Xe Xenon 131.29
		57-71	72 Hf Hafnium 178.49	73 Ta Tantalum 180.95	74 W Tungsten 183.84	75 Re Rhenium 186.21	76 Os Osmium 190.23	77 Ir Iridium 192.22	78 Pt Platinum 195.08	79 Au Gold 196.97	80 Hg Mercury 200.59	81 Tl Thallium 204.38	82 Pb Lead 207.2	83 Bi Bismuth 208.98	84 Po Polonium (209)	85 At Astatine (210)	86 Rn Radon (222)
		89-103	104 Rf Rutherfordium (267)	105 Db Dubnium (268)	106 Sg Seaborgium (269)	107 Bh Bohrium (270)	108 Hs Hassium (277)	109 Mt Meitnerium (278)	110 Ds Darmstadtium (281)	111 Rg Roentgenium (282)	112 Cn Copernicium (285)	113 Nh Nihonium (286)	114 Fl Flerovium (289)	115 Mc Moscovium (290)	116 Lv Livermorium (293)	117 Ts Tennessine (294)	118 Og Oganesson (294)
		6	57 La Lanthanum 138.91	58 Ce Cerium 140.12	59 Pr Praseodymium 140.91	60 Nd Neodymium 144.24	61 Pm Promethium (145)	62 Sm Samarium 150.36	63 Eu Europium 151.96	64 Gd Gadolinium 157.25	65 Tb Terbium 158.93	66 Dy Dysprosium 162.50	67 Ho Holmium 164.93	68 Er Erbium 167.26	69 Tm Thulium 168.93	70 Yb Ytterbium 173.05	71 Lu Lutetium 174.97
			89 Ac Actinium (227)	90 Th Thorium (232)	91 Pa Protactinium (231)	92 U Uranium (238)	93 Np Neptunium (237)	94 Pu Plutonium (244)	95 Am Americium (243)	96 Cm Curium (247)	97 Bk Berkelium (247)	98 Cf Californium (251)	99 Es Einsteinium (252)	100 Fm Fermium (257)	101 Md Mendelevium (258)	102 No Nomenium (259)	103 Lr Lawrencium (260)

For elements with no stable isotopes, the mass number of the isotope with the longest half-life is in parentheses.



Temperature - [Slider] + 0 °C 32 °F 273 K

1 1

H

Hydrogen

1.008

Series: Reactive nonmetals

Write-up: [Hydrogen](#) Wikipedia

State at 0 °C: Gas

Weight: 1.008 u

Energy levels: 1

Electronegativity: 2.20

Melting point: -259.1 °C

Boiling point: -252.9 °C

Electron affinity: 72.8 kJ/mol

Ionization, 1st: 1,31... kJ/mol

Radius, calculated: 53 pm

Hardness, Brinell: N/A MPa

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
														Phytogens	Chalcogens	Halogens			
1 H Hydrogen 1.008	2 He Helium 4.0026											3 Li Lithium 6.94	4 Be Beryllium 9.0122	5 B Boron 10.81	6 C Carbon 12.011	7 N Nitrogen 14.007	8 O Oxygen 15.999	9 F Fluorine 18.998	10 Ne Neon 20.180
11 Na Sodium 22.990	12 Mg Magnesium 24.305											13 Al Aluminium 26.982	14 Si Silicon 28.085	15 P Phosphorus 30.974	16 S Sulfur 32.06	17 Cl Chlorine 35.45	18 Ar Argon 39.948		
19 K Potassium 39.098	20 Ca Calcium 40.078	21 Sc Scandium 44.956	22 Ti Titanium 47.867	23 V Vanadium 50.942	24 Cr Chromium 51.996	25 Mn Manganese 54.938	26 Fe Iron 55.845	27 Co Cobalt 58.933	28 Ni Nickel 58.693	29 Cu Copper 63.546	30 Zn Zinc 65.38	31 Ga Gallium 69.723	32 Ge Germanium 72.630	33 As Arsenic 74.922	34 Se Selenium 78.971	35 Br Bromine 79.904	36 Kr Krypton 83.798		
37 Rb Rubidium 85.468	38 Sr Strontium 87.62	39 Y Yttrium 88.906	40 Zr Zirconium 91.224	41 Nb Niobium 92.906	42 Mo Molybdenum 95.95	43 Tc Technetium (98)	44 Ru Ruthenium 101.07	45 Rh Rhodium 102.91	46 Pd Palladium 106.42	47 Ag Silver 107.87	48 Cd Cadmium 112.41	49 In Indium 114.82	50 Sn Tin 118.71	51 Sb Antimony 121.76	52 Te Tellurium 127.60	53 I Iodine 126.90	54 Xe Xenon 131.29		
55 Cs Caesium 132.91	56 Ba Barium 137.33	57-71	72 Hf Hafnium 178.49	73 Ta Tantalum 180.95	74 W Tungsten 183.84	75 Re Rhenium 186.21	76 Os Osmium 190.23	77 Ir Iridium 192.22	78 Pt Platinum 195.08	79 Au Gold 196.97	80 Hg Mercury 200.59	81 Tl Thallium 204.38	82 Pb Lead 207.2	83 Bi Bismuth 208.98	84 Po Polonium (209)	85 At Astatine (210)	86 Rn Radon (222)		
87 Fr Francium (223)	88 Ra Radium (226)	89-103	104 Rf Rutherfordium (267)	105 Db Dubnium (268)	106 Sg Seaborgium (269)	107 Bh Bohrium (270)	108 Hs Hassium (277)	109 Mt Meitnerium (278)	110 Ds Darmstadtium (281)	111 Rg Roentgenium (282)	112 Cn Copernicium (285)	113 Nh Nihonium (286)	114 Fl Flerovium (289)	115 Mc Moscovium (290)	116 Lv Livermorium (293)	117 Ts Tennessine (294)	118 Og Oganesson (294)		
For elements with no stable isotopes, the mass number of the isotope with the longest half-life is in parentheses.																			
		6	57 La Lanthanum 138.91	58 Ce Cerium 140.12	59 Pr Praseodymium 140.91	60 Nd Neodymium 144.24	61 Pm Promethium (145)	62 Sm Samarium 150.36	63 Eu Europium 151.96	64 Gd Gadolinium 157.25	65 Tb Terbium 158.93	66 Dy Dysprosium 162.50	67 Ho Holmium 164.93	68 Er Erbium 167.26	69 Tm Thulium 168.93	70 Yb Ytterbium 173.05	71 Lu Lutetium 174.97		
		7	89 Ac Actinium (227)	90 Th Thorium 232.04	91 Pa Protactinium 231.04	92 U Uranium 238.03	93 Np Neptunium (237)	94 Pu Plutonium (244)	95 Am Americium (243)	96 Cm Curium (247)	97 Bk Berkelium (247)	98 Cf Californium (251)	99 Es Einsteinium (252)	100 Fm Fermium (257)	101 Md Mendelevium (258)	102 No Nobelium (259)	103 Lr Lawrencium (266)		

36
Kr
Krypton
83.798

2
8
18
8

Series	Noble gases
Write-up	Krypton Wikipedia
State at 0 °C	Gas
Weight	83.798 u
Energy levels	2, 8, 18, 8
Electronegativity	3.0
Melting point	-157.36 °C
Boiling point	-153.22 °C
Electron affinity	0 kJ/mol
Ionization, 1st	1,35... kJ/mol
Radius, calculated	88 pm
Hardness, Brinell	N/A MPa
Modulus, bulk	N/A GPa

Temperature - [Slider] +

1	2	3	4	5	6	7	8	9	10	11	12						
1 H Hydrogen 1.008	2 He Helium 4.0026																
3 Li Lithium 6.94	4 Be Beryllium 9.0122																
11 Na Sodium 22.990	12 Mg Magnesium 24.305																
19 K Potassium 39.098	20 Ca Calcium 40.078	21 Sc Scandium 44.956	22 Ti Titanium 47.867	23 V Vanadium 50.942	24 Cr Chromium 51.996	25 Mn Manganese 54.938	26 Fe Iron 55.845	27 Co Cobalt 58.933	28 Ni Nickel 58.693	29 Cu Copper 63.546	30 Zn Zinc 65.38	31 Ga Gallium 69.723	32 Ge Germanium 72.630	33 As Arsenic 74.922	34 Se Selenium 78.971	35 Br Bromine 79.904	36 Kr Krypton 83.798
37 Rb Rubidium 85.468	38 Sr Strontium 87.62	39 Y Yttrium 88.906	40 Zr Zirconium 91.224	41 Nb Niobium 92.906	42 Mo Molybdenum 95.95	43 Tc Technetium (98)	44 Ru Ruthenium 101.07	45 Rh Rhodium 102.91	46 Pd Palladium 106.42	47 Ag Silver 107.87	48 Cd Cadmium 112.41	49 In Indium 114.82	50 Sn Tin 118.71	51 Sb Antimony 121.76	52 Te Tellurium 127.60	53 I Iodine 126.90	54 Xe Xenon 131.29
55 Cs Caesium 132.91	56 Ba Barium 137.33	57-71	72 Hf Hafnium 178.49	73 Ta Tantalum 180.95	74 W Tungsten 183.84	75 Re Rhenium 186.21	76 Os Osmium 190.23	77 Ir Iridium 192.22	78 Pt Platinum 195.08	79 Au Gold 196.97	80 Hg Mercury 200.59	81 Tl Thallium 204.38	82 Pb Lead 207.2	83 Bi Bismuth 208.98	84 Po Polonium (209)	85 At Astatine (210)	86 Rn Radon (222)
87 Fr Francium (223)	88 Ra Radium (226)	89-103	104 Rf Rutherfordium (267)	105 Db Dubnium (268)	106 Sg Seaborgium (269)	107 Bh Bohrium (270)	108 Hs Hassium (277)	109 Mt Meitnerium (278)	110 Ds Darmstadtium (281)	111 Rg Roentgenium (282)	112 Cn Copernicium (285)	113 Nh Nihonium (286)	114 Fl Flerovium (289)	115 Mc Moscovium (290)	116 Lv Livermorium (293)	117 Ts Tennessine (294)	118 Og Oganesson (294)
For elements with no stable isotopes, the mass number of the isotope with the longest half-life is in parentheses.																	
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89 Ac Actinium (227)	90 Th Thorium 232.04	91 Pa Protactinium 231.04	92 U Uranium 238.03	93 Np Neptunium (237)	94 Pu Plutonium (244)	95 Am Americium (243)	96 Cm Curium (247)	97 Bk Berkelium (247)	98 Cf Californium (251)	99 Es Einsteinium (252)	100 Fm Fermium (257)	101 Md Mendelevium (258)	102 No Nobelium (259)	103 Lr Lawrencium (266)			

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Ptable Properties Electrons Isotopes Compounds Wide

Temperature 0 °C 32 °F 273 K

1
H
Hydrogen
1.008

Series: Reactive nonmetals

Write-up: [Hydrogen](#) Wikipedia

State at 0 °C: Gas

Weight: 1.008 u

Energy levels: 1

Electronegativity: 2.20

Melting point: -259.1 °C

Boiling point: -252.9 °C

1 H Hydrogen 1.008	2 He Helium 4.0026	Pnictogens Chalcogens Halogens															
3 Li Lithium 6.94	4 Be Beryllium 9.0122	Metals										5 B Boron 10.81	6 C Carbon 12.011	7 N Nitrogen 14.007	8 O Oxygen 15.999	9 F Fluorine 18.998	10 Ne Neon 20.180
11 Na Sodium 22.990	12 Mg Magnesium 24.305	Metalloids										13 Al Aluminium 26.982	14 Si Silicon 28.085	15 P Phosphorus 30.974	16 S Sulfur 32.06	17 Cl Chlorine 35.45	18 Ar Argon 39.948
19 K Potassium 39.098	20 Ca Calcium 40.078	21 Sc Scandium 44.956	22 Ti Titanium 47.867	23 V Vanadium 50.942	24 Cr Chromium 51.996	25 Mn Manganese 54.938	26 Fe Iron 55.845	27 Co Cobalt 58.933	28 Ni Nickel 58.693	29 Cu Copper 63.546	30 Zn Zinc 65.38	31 Ga Gallium 69.723	32 Ge Germanium 72.630	33 As Arsenic 74.922	34 Se Selenium 78.971	35 Br Bromine 79.904	36 Kr Krypton 83.798
37 Rb Rubidium 85.468	38 Sr Strontium 87.62	39 Y Yttrium 88.906	40 Zr Zirconium 91.224	41 Nb Niobium 92.906	42 Mo Molybdenum 95.95	43 Tc Technetium (98)	44 Ru Ruthenium 101.07	45 Rh Rhodium 102.91	46 Pd Palladium 106.42	47 Ag Silver 107.87	48 Cd Cadmium 112.41	49 In Indium 114.82	50 Sn Tin 118.71	51 Sb Antimony 121.76	52 Te Tellurium 127.60	53 I Iodine 126.90	54 Xe Xenon 131.29
55 Cs Caesium 132.91	56 Ba Barium 137.33	57-71	72 Hf Hafnium 178.49	73 Ta Tantalum 180.95	74 W Tungsten 183.84	75 Re Rhenium 186.21	76 Os Osmium 190.23	77 Ir Iridium 192.22	78 Pt Platinum 195.08	79 Au Gold 196.97	80 Hg Mercury 200.59	81 Tl Thallium 204.38	82 Pb Lead 207.2	83 Bi Bismuth 208.98	84 Po Polonium (209)	85 At Astatine (210)	86 Rn Radon (222)
87 Fr Francium (223)	88 Ra Radium (226)	89-103	104 Rf Rutherfordium (261)	105 Db Dubnium (268)	106 Sg Seaborgium (269)	107 Bh Bohrium (270)	108 Hs Hassium (277)	109 Mt Meitnerium (278)	110 Ds Darmstadtium (281)	111 Rg Roentgenium (282)	112 Cn Copernicium (285)	113 Nh Nihonium (286)	114 Fl Flerovium (289)	115 Mc Moscovium (290)	116 Lv Livermorium (293)	117 Ts Tennessine (294)	118 Og Oganesson (294)

For elements with no stable isotopes, the mass number of the isotope with the longest half-life is in parentheses.

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Ptable

Properties

Electrons

Isotopes

Compounds



1
H
Hydrogen
1.008

Temperature

Series	Reactive nonmetals
Write-up	Hydrogen Wikipedia
State at 0 °C	Gas
Weight	1.008 u
Energy levels	1
Electronegativity	2.20

1	2	3	4	5	6	7	8	9	10	11		
1 H Hydrogen 1.008	4 Be Beryllium 9.0122	[C] Solid		[Hg] Liquid		[H] Gas		[Rf] Unknown				
3 Li Lithium 6.94	12 Mg Magnesium 24.305	Metals		Nonmetals		Metalloids		Reactive nonmetals		Noble gases		
11 Na Sodium 22.990	20 Ca Calcium 40.078	21 Sc Scandium 44.956	22 Ti Titanium 47.867	23 V Vanadium 50.942	24 Cr Chromium 51.996	25 Mn Manganese 54.938	26 Fe Iron 55.845	27 Co Cobalt 58.933	28 Ni Nickel 58.693	29 Cu Copper 63.546	30 Zn Zinc 65.38	
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37 Rb Rubidium 85.468	56 Ba Barium 137.33	57-71	72 Hf Hafnium 178.49	73 Ta Tantalum 180.95	74 W Tungsten 183.84	75 Re Rhenium 186.21	76 Os Osmium 190.23	77 Ir Iridium 192.22	78 Pt Platinum 195.08	79 Au Gold 196.97	80 Hg Mercury 200.59	
55 Cs Caesium 132.91	81 Tl Thallium 204.38	82 Pb Lead 207.2	83 Bi Bismuth 208.98	84 Po Polonium (209)	85 At Astatine (210)	86 Rn Radon (222)	113	114	115	116	117	118

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Properties

Electrons

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Compounds

Wide



54

1
H
Hydrogen
1.008

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Series: Reactive

Write-up: [Hydrogen wikipedia](#)

State at: 0 °C Gas

Weight: 1.008 u

Energy levels: 1

Electronegativity: 2.20

19 K Potassium 39.098	20 Ca Calcium 40.078	21 Sc Scandium 44.956	22 Ti Titanium 47.867	23 V Vanadium 50.942	24 Cr Chromium 51.996	25 Mn Manganese 54.938	26 Fe Iron 55.845	27 Co Cobalt 58.933	28 Ni Nickel 58.693	29 Cu Copper 63.546	30 Zn Zinc 65.38	31 Ga Gallium 69.723	32 Ge Germanium 72.630	33 As Arsenic 74.922	34 Se Selenium 78.971	35 Br Bromine 79.904	36 Kr Krypton 83.798
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87	88		104	105	106	107	108	109	110	111	112	113	114	115	116	117	118

THANK YOU