

» Georgia Tech Year of the Periodic Table 2019



Periodic Table Fun For All Ages

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For best results, print as a brochure on 11x17 paper.

Periodic Table of the Elements

Atomic Number	Symbol	Name	Atomic Mass
1	H	Hydrogen	1.008
2	He	Helium	4.003
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	Aluminum	26.982
14	Si	Silicon	28.086
15	P	Phosphorus	30.974
16	S	Sulfur	32.066
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	47.867
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	72.631
33	As	Arsenic	74.922
34	Se	Selenium	78.972
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	98.907
44	Ru	Ruthenium	101.07
45	Rh	Rhodium	102.906
46	Pd	Palladium	106.42
47	Ag	Silver	107.868
48	Cd	Cadmium	112.411
49	In	Indium	114.818
50	Sn	Tin	118.711
51	Sb	Antimony	121.750
52	Te	Tellurium	127.6
53	I	Iodine	126.904
54	Xe	Xenon	131.294
55	Cs	Cesium	132.905
56	Ba	Barium	137.328
57-71	Lanthanide Series		
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	192.217
78	Pt	Platinum	195.085
79	Au	Gold	196.967
80	Hg	Mercury	200.592
81	Tl	Thallium	204.383
82	Pb	Lead	207.2
83	Bi	Bismuth	208.980
84	Po	Polonium	[208.982]
85	At	Astatine	209.987
86	Rn	Radon	222.018
87	Fr	Francium	223.020
88	Ra	Radium	226.025
89-103	Actinide Series		
104	Rf	Rutherfordium	[261]
105	Db	Dubnium	[262]
106	Sg	Seaborgium	[266]
107	Bh	Bohrium	[264]
108	Hs	Hassium	[269]
109	Mt	Meitnerium	[278]
110	Ds	Darmstadtium	[281]
111	Rg	Roentgenium	[280]
112	Cn	Copernicium	[285]
113	Nh	Nihonium	[286]
114	Fl	Flerovium	[289]
115	Mc	Moscovium	[289]
116	Lv	Livermorium	[293]
117	Ts	Tennesine	[294]
118	Og	Oganesson	[294]

57	La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
89	Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr
138.905	140.116	140.908	142.913	144.242	144.913	150.36	151.964	157.25	158.925	162.500	164.930	167.259	168.934	173.055	174.967
227.028	232.038	231.036	238.029	237.048	244.064	247.070	243.061	247.070	247.070	251.080	[254]	257.095	258.1	259.101	[262]

- Alkali Metal
- Alkaline Earth
- Transition Metal
- Basic Metal
- Semimetal
- Nonmetal
- Halogen
- Noble Gas
- Lanthanide
- Actinide

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Periodic Table Fun for Beginners

Find answers in the periodic table

1. How many elements are in the periodic table?
2. Look at the numbers at the top of each column in the periodic table. What is the first element in Group 1?
3. What is the first element in Group 14?
4. What element has the highest atomic number?
5. Pick a number between 1 and 118. What element has an atomic number that coincides with your choice?
6. What element symbols can you find in your name? For example: JOHN: O = Oxygen; H = Hydrogen; N = Nitrogen
7. What element symbols can you find in these animal names? BAT, SEAL, COW, SHARK

8. What element symbols can you find in these fruits and vegetables?
BANANA, CABBAGE, ORANGE, KIWIS, BROCCOLI, SPINACH
9. What element names can you find in these celestial bodies?
MOON, SUN, SATURN, URANUS
10. What elements are grouped as alkali metals
11. What is the biggest class of elements in the periodic table?
12. What is the lightest transition metal in the periodic table?
13. What is the lightest alkaline earth metal?
14. What is the lightest halogen?
15. What is the lightest actinide?



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Periodic Table Trivia: Test your knowledge of the periodic table and the chemical elements.

1. Who invented the periodic table?
2. What is the most abundant element in air?
3. What is the most abundant element in the sun?
4. What elements make up hydrocarbons?
5. What elements make up carbohydrates?
6. What element makes up light bulb filaments?
7. What is the only metal element that is a liquid at room temperature?
8. What metal's oxidation causes the Statue of Liberty to turn green?
9. Which gaseous elements are lighter than the air?
10. Which two metal elements are not grey or silver?
11. What element was the first to be identified as a pure element?
12. What is the heaviest naturally occurring element?
13. What element has the highest density?
14. Name two elements that are named after planets or dwarf planets.
15. Name four elements that are named after people.
16. What two elements are named after U.S. states?
17. Name three elements that take their atomic symbols from their Latin names.
18. What is the most abundant element in the human body by weight?
19. Name the three most abundant elements in Earth's crust.
20. With only about 28 grams naturally occurring in Earth's crust, what is the least abundant naturally occurring element?
21. What was the first element to be created artificially?

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