

How do we read the Periodic Table?

* Atomic number
is always less than
Atomic mass.

Atomic number (#)

79

Element
(Symbol)

Au

Element
Name

Gold

196.97

Atomic mass

Groups/Families
(Columns) \updownarrow

Periods (Rows) \longleftrightarrow

The Periodic Table

 - Metals (left) - Nonmetals (right)

Color Key

- Metalloids (Around the stairs)
- Alkali Metals (Group 1)
- Alkali Earth Metals (Group 2)
- Transition Metals (Group 3-12)
- Halogens (Group 17)
- Noble Gases (Group 18)

<div>1- Alkali Metals (Group 1)</div> <div>2- Alkali Earth Metals (Group 2)</div> <div>3-12- Transition Metals (Group 3-12)</div> <div>17- Halogens (Group 17)</div> <div>18- Noble Gases (Group 18)</div>																																			
1																		18																	
1 H Hydrogen 1.00794																		2 He Helium 4.003																	
3 Li Lithium 6.941																		10 Ne Neon 20.1797																	
4 Be Beryllium 9.012182																		9 F Fluorine 18.9984032																	
11 Na Sodium 22.989770																		17 Cl Chlorine 35.4527																	
12 Mg Magnesium 24.3050																		18 Ar Argon 39.948																	
19 K Potassium 39.0983																		36 Kr Krypton 83.80																	
20 Ca Calcium 40.078																		35 Br Bromine 79.904																	
37 Rb Rubidium 85.4678																		54 Xe Xenon 131.29																	
38 Sr Strontium 87.62																		53 I Iodine 126.90447																	
55 Cs Cesium 132.90545																		86 Rn Radon (222)																	
56 Ba Barium 137.327																		85 At Astatine (210)																	
87 Fr Francium (223)																																			
88 Ra Radium (226)																																			
89 Ac Actinium (227)																																			
104 Rf Rutherfordium (261)																																			
105 Db Dubnium (262)																																			
106 Sg Seaborgium (263)																																			
107 Bh Bohrium (264)																																			
108 Hs Hassium (265)																																			
109 Mt Meitnerium (266)																																			
110 (267)																																			
111 (272)																																			
112 (277)																																			
</																																			

58 Ce Cerium 140.116	59 Pr Praseodymium 140.90765	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 158.92534	66 Dy Dysprosium 162.50	67 Ho Holmium 164.93032	68 Er Erbium 167.26	69 Tm Thulium 168.93421	70 Yb Ytterbium 173.04	71 Lu Lutetium 174.967
90 Th Thorium 232.0381	91 Pa Protactinium 231.03688	92 U Uranium 238.02891	93 Np Neptunium 237.04817	94 Pu Plutonium 244.0642	95 Am Americium 243.0613	96 Cm Curium 247.0764	97 Bk Berkelium 247.07125	98 Cf Californium 251.0833	99 Es Einsteinium 252.083	100 Fm Fermium 257.10	101 Md Mendelevium 258.10	102 No Nobelium 259.10	103 Lr Lawrencium 262.10

Groups / Families
(Columns) ↑

The Periodic Table (Part 2)

□ - Metals (Left) □ - Nonmetals (Right)

Color Key

- Metalloids (beside the stairs)
- Alkali Metals (Group 1)
- Alkali Earth Metals (Group 2)
- Transition Metals (Groups 3-12)
- Halogens (Group 17)
- Noble Gases (Group 18)

1	2											13	14	15	16	17	18
1 H Hydrogen 1.00794	2 He Helium 4.003											3 B Boron 10.811	4 C Carbon 12.0107	5 N Nitrogen 14.00674	6 O Oxygen 15.9994	7 F Fluorine 18.9984032	8 Ne Neon 20.1797
3 Li Lithium 6.941	4 Be Beryllium 9.012182											9 Al Aluminum 26.981538	10 Si Silicon 28.0855	11 P Phosphorus 30.973761	12 S Sulfur 32.066	13 Cl Chlorine 35.4527	14 Ar Argon 39.948
11 Na Sodium 22.989770	12 Mg Magnesium 24.3050	21 Sc Scandium 44.955910	22 Ti Titanium 47.867	23 V Vanadium 50.9415	24 Cr Chromium 51.9961	25 Mn Manganese 54.938049	26 Fe Iron 55.845	27 Co Cobalt 58.933200	28 Ni Nickel 58.6934	29 Cu Copper 63.546	30 Zn Zinc 65.39	31 Ga Gallium 69.723	32 Ge Germanium 72.61	33 As Arsenic 74.92160	34 Se Selenium 78.96	35 Br Bromine 79.904	36 Kr Krypton 83.80
37 Rb Rubidium 85.4678	38 Sr Strontium 87.62	39 Y Yttrium 88.90585	40 Zr Zirconium 91.224	41 Nb Niobium 92.90638	42 Mo Molybdenum 95.94	43 Tc Technetium (98)	44 Ru Ruthenium 101.07	45 Rh Rhodium 102.90550	46 Pd Palladium 106.42	47 Ag Silver 107.8682	48 Cd Cadmium 112.411	49 In Indium 114.818	50 Sn Tin 118.710	51 Sb Antimony 121.760	52 Te Tellurium 127.60	53 I Iodine 126.90447	54 Xe Xenon 131.29
55 Cs Cesium 132.90545	56 Ba Barium 137.327	57 La Lanthanum 138.9055	72 Hf Hafnium 178.49	73 Ta Tantalum 180.9479	74 W Tungsten 183.84	75 Re Rhenium 186.207	76 Os Osmium 190.23	77 Ir Iridium 192.217	78 Pt Platinum 195.078	79 Au Gold 196.96655	80 Hg Mercury 200.59	81 Tl Thallium 204.3833	82 Pb Lead 207.2	83 Bi Bismuth 208.98038	84 Po Polonium (209)	85 At Astatine (210)	86 Rn Radon (222)
87 Fr Francium (223)	88 Ra Radium (226)	89 Ac Actinium (227)	104 Rf Rutherfordium (261)	105 Db Dubnium (262)	106 Sg Seaborgium (263)	107 Bh Bohrium (264)	108 Hs Hassium (265)	109 Mt Meitnerium (266)	110 (269)	111 (272)	112 (277)	113	114				

Periods (Rows) ↔

58 Ce Cerium 140.116	59 Pr Praseodymium 140.90765	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 158.92534	66 Dy Dysprosium 162.50	67 Ho Holmium 164.93032	68 Er Erbium 167.26	69 Tm Thulium 168.93421	70 Yb Ytterbium 173.04	71 Lu Lutetium 174.967
90 Th Thorium 232.0381	91 Pa Protactinium 231.03588	92 U Uranium 238.0289	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 (262)

Do not complete the circled questions. ☹

Name _____ Date _____ Pd _____

Using the Organization of the Periodic Table to Find Information

Directions: Using the periodic table in your notebooks, find the answers to the questions below.

1. What is the atomic mass for Osmium? _____
2. What is the element symbol for Mercury? _____
3. What is the atomic number for Arsenic? _____
4. What family number and name is Chlorine located in? _____
5. What is the element name for Sn? _____
6. What is the period (number) for Bismuth? _____
7. What is the atomic mass for Thallium? _____
8. What is the element symbol for Tungsten? _____
9. What is the family name and number for Calcium? _____
10. What is the element name for Au? _____
11. What is the period (number) for Na? _____
12. What is the group number and name for Titanium? _____
13. What is the atomic number for Hf? _____
14. What s the atomic mass for Lead? _____
15. What is the period (number) for Kr? _____