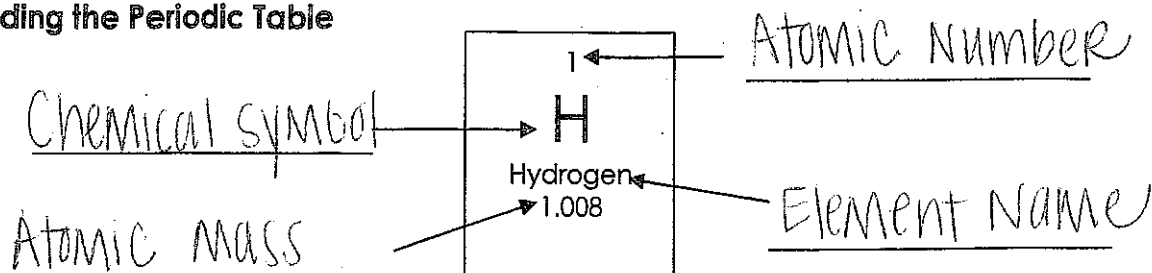


Name: \_\_\_\_\_ Date: \_\_\_\_\_ Hour: \_\_\_\_\_

### Periodic Table of Elements

#### Reading the Periodic Table



Atomic Number: # of protons and # of electrons

Chemical Symbol: abbreviation

Element Name: write below the symbol.

Atomic Mass: # of protons and # of neutrons

#### Periodic Table Information

	Definition	Examples (from Periodic Table)
<b>Metal</b>	shiny, malleable (bend) good conductors heat/electricity 75% of P.T. left side of P.T to center	Fe = Iron Zn = Zinc Ca = Calcium
<b>Non-Metal</b>	dull, brittle (breaks) poor conductors of heat/ electricity less than 25% of P.T. right side of P.T.	O = Oxygen N = Nitrogen Ne = Neon
<b>Metalloid</b>	stair-step on P.T. has characteristics of metals and non-metals some good conductors / some poor not as strong as metals	B = Boron Si = Silicon

	Definition	Examples (from Periodic Table)
<b>Group</b>	column, read top to bottom	Group 15 - N, P, As, Sb, Bi
<b>Period</b>	read across, row (→)	Period 3 - Na, Mg, Al, Si, P, S, Cl, Ar
<b>Family</b>	Same as group	

**GROUP/FAMILY = Act similar, similar properties**

**1** **2** **3** **4** **5** **6** **7** **8** **9** **10** **11** **12**

**PERIOD READ ACROSS**

1 H Hydrogen 1.0	2 He Helium 4.0																																
3 Li Lithium 6.9	4 Be Beryllium 9.0	5 B Boron 10.8	6 C Carbon 12.0	7 N Nitrogen 14.0	8 O Oxygen 16.0	9 F Fluorine 19.0	10 Ne Neon 20.2																										
11 Na Sodium 23.0	12 Mg Magnesium 24.3	13 Al Aluminum 27.0	14 Si Silicon 28.1	15 P Phosphorus 31.0	16 S Sulfur 32.1	17 Cl Chlorine 35.5	18 Ar Argon 40.0																										
19 K Potassium 39.1	20 Ca Calcium 40.1	21 Sc Scandium 45.0	22 Ti Titanium 47.9	23 V Vanadium 50.9	24 Cr Chromium 52.0	25 Mn Manganese 54.9	26 Fe Iron 55.8	27 Co Cobalt 58.9	28 Ni Nickel 58.7	29 Cu Copper 63.5	30 Zn Zinc 65.4	31 Ga Gallium 69.7	32 Ge Germanium 72.6	33 As Arsenic 74.9	34 Se Selenium 79.0	35 Br Bromine 79.9	36 Kr Krypton 83.8																
37 Rb Rubidium 85.5	38 Sr Strontium 87.6	39 Y Yttrium 88.9	40 Zr Zirconium 91.2	41 Nb Niobium 92.9	42 Mo Molybdenum 95.9	43 Tc Technetium 98.0	44 Ru Ruthenium 101.0	45 Rh Rhodium 102.9	46 Pd Palladium 106.4	47 Ag Silver 107.9	48 Cd Cadmium 112.4	49 In Indium 114.8	50 Sn Tin 118.7	51 Sb Antimony 121.8	52 Te Tellurium 127.6	53 I Iodine 126.9	54 Xe Xenon 131.3																
55 Cs Cesium 132.9	56 Ba Barium 137.4	57-71 La Lanthanum 138.9	72 Hf Hafnium 178.5	73 Ta Tantalum 181.0	74 W Wolfram 183.9	75 Re Rhenium 186.2	76 Os Osmium 190.2	77 Ir Iridium 192.2	78 Pt Platinum 195.1	79 Au Gold 197.0	80 Hg Mercury 200.6	81 Tl Thallium 204.4	82 Pb Lead 207.2	83 Bi Bismuth 209.0	84 Po Polonium 210.0	85 At Astatine 210.0	86 Rn Radon 222.0																

**13 14 15 16 17**

**18**

Elements 110-111 are not included in this periodic table, because their existence is still being disputed among scientists.

57 La Lanthanum 138.9	58 Ce Cerium 140.1	59 Pr Praseodymium 140.9	60 Nd Neodymium 144.2	61 Pm Promethium 147.0	62 Sm Samarium 150.4	63 Eu Europium 152.0	64 Gd Gadolinium 157.3	65 Tb Terbium 158.9	66 Dy Dysprosium 162.5	67 Ho Holmium 164.9	68 Er Erbium 167.3	69 Tm Thulium 168.9	70 Yb Ytterbium 173.0	71 Lu Lutetium 175
89 Ac Actinium 227.0	90 Th Thorium 232.0	91 Pa Protactinium 231.0	92 U Uranium 238.0	93 Np Neptunium 237.0	94 Pu Plutonium 244.0	95 Am Americium 243.0	96 Cm Curium 247.0	97 Bk Berkelium 247.0	98 Cf Californium 251.0	99 Es Einsteinium 252.0	100 Fm Fermium 257.0	101 Md Mendelevium 258.0	102 No Nobelium (259.0)	103 Lr Lawrencium (260.0)

Approximate values for radioactive elements are listed in parentheses.