

The Periodic Table of the Elements

Periodic Table of the Elements

1													18												
1 H 1.008 Hydrogen																	2 He 4.003 Helium								
3 Li 6.941 Lithium	4 Be 9.012 Beryllium											5 B 10.811 Boron	6 C 12.011 Carbon	7 N 14.007 Nitrogen	8 O 15.999 Oxygen	9 F 18.998 Fluorine	10 Ne 20.180 Neon								
11 Na 22.990 Sodium	12 Mg 24.305 Magnesium											13 Al 26.982 Aluminum	14 Si 28.086 Silicon	15 P 30.974 Phosphorus	16 S 32.066 Sulfur	17 Cl 35.453 Chlorine	18 Ar 39.948 Argon								
19 K 39.098 Potassium	20 Ca 40.078 Calcium	21 Sc 44.956 Scandium	22 Ti 47.887 Titanium	23 V 50.942 Vanadium	24 Cr 51.996 Chromium	25 Mn 54.938 Manganese	26 Fe 55.845 Iron	27 Co 58.933 Cobalt	28 Ni 58.693 Nickel	29 Cu 63.546 Copper	30 Zn 65.39 Zinc	31 Ga 69.723 Gallium	32 Ge 72.61 Germanium	33 As 74.922 Arsenic	34 Se 78.972 Selenium	35 Br 79.904 Bromine	36 Kr 84.80 Krypton								
37 Rb 85.468 Rubidium	38 Sr 87.62 Strontium	39 Y 88.906 Yttrium	40 Zr 91.224 Zirconium	41 Nb 92.906 Niobium	42 Mo 95.94 Molybdenum	43 Tc 98.907 Technetium	44 Ru 101.07 Ruthenium	45 Rh 102.906 Rhodium	46 Pd 106.42 Palladium	47 Ag 107.868 Silver	48 Cd 112.41 Cadmium	49 In 114.818 Indium	50 Sn 118.71 Tin	51 Sb 121.760 Antimony	52 Te 127.6 Tellurium	53 I 126.905 Iodine	54 Xe 131.29 Xenon								
55 Cs 132.905 Cesium	56 Ba 137.327 Barium	57-71 Lanthanide Series	72 Hf 178.49 Hafnium	73 Ta 180.948 Tantalum	74 W 183.85 Tungsten	75 Re 186.207 Rhenium	76 Os 190.23 Osmium	77 Ir 192.22 Iridium	78 Pt 195.08 Platinum	79 Au 196.967 Gold	80 Hg 200.59 Mercury	81 Tl 204.387 Thallium	82 Pb 207.2 Lead	83 Bi 208.980 Bismuth	84 Po [209] Polonium	85 At 209 Astatine	86 Rn 222.018 Radon								
87 Fr 223.020 Francium	88 Ra 226.025 Radium	89-103 Actinide Series	104 Rf [261] Rutherfordium	105 Db [262] Dubnium	106 Sg [266] Seaborgium	107 Bh [264] Bohrium	108 Hs [269] Hassium	109 Mt [268] Meitnerium	110 Ds [269] Darmstadtium	111 Rg [272] Roentgenium	112 Cn [277] Copernicium	113 Uut [284] Ununtrium	114 Fl [289] Flerovium	115 Uup [288] Ununpentium	116 Lv [289] Livermorium	117 Uus [289] Ununseptium	118 Uuo [289] Ununoctium								
57 La 138.906 Lanthanum	58 Ce 140.116 Cerium	59 Pr 140.908 Praseodymium	60 Nd 144.24 Neodymium	61 Pm 144.913 Promethium	62 Sm 150.36 Samarium	63 Eu 151.964 Europium	64 Gd 157.25 Gadolinium	65 Tb 158.925 Terbium	66 Dy 162.50 Dysprosium	67 Ho 164.930 Holmium	68 Er 167.26 Erbium	69 Tm 168.934 Thulium	70 Yb 173.04 Ytterbium	71 Lu 174.967 Lutetium											
89 Ac 227.028 Actinium	90 Th 232.038 Thorium	91 Pa 231.036 Protactinium	92 U 238.029 Uranium	93 Np 237.048 Neptunium	94 Pu 244.064 Plutonium	95 Am 243.061 Americium	96 Cm 247.070 Curium	97 Bk 247.070 Berkelium	98 Cf 251.080 Californium	99 Es [254] Einsteinium	100 Fm 257.095 Fermium	101 Md 258.1 Mendelevium	102 No 259.101 Nobelium	103 Lr [262] Lawrencium											

Getting Re-acquainted booklet

Name:

Period:

DATE:

NAME:

CLASS:

CHAPTER 5
REINFORCEMENT**BLM 5-1****Reviewing Element Names
and Symbols****Goal** • Review the names and symbols of various elements by finding them in the periodic table.**What to Do**

Complete the following tables. Refer to the periodic table in Appendix C of your textbook.

1. Write the full name of the element beside each symbol.

Symbol	Element name	Symbol	Element name
Cl		Ca	
C		Mg	
Ne		Si	
N		S	
He		P	
F		K	

2. Write the correct symbol next to the name of each element.

Element name	Symbol	Element name	Symbol
sodium		gold	
lithium		silver	
aluminum		copper	
boron		cobalt	

DATE:

NAME:

CLASS:

CHAPTER 5
SKILL BUILDER

BLM 5-2

Periodic Table Scavenger Hunt

Goal • Gain further understanding of the periodic table.

What to Do

Answer each question in the space provided. Refer to the periodic table in Appendix C of your textbook.

- (a) How many periods does the periodic table have? _____

(b) How many groups does the periodic table have? _____
- (a) Where are the metals found in the periodic table? _____

(b) Where are the non-metals found in the periodic table? _____
- (a) Which elements are found around the "staircase" of the periodic table? _____

(b) Why are these elements at the "staircase" special? _____

- Which metal is a liquid at room temperature? _____
- What does the atomic number represent? _____

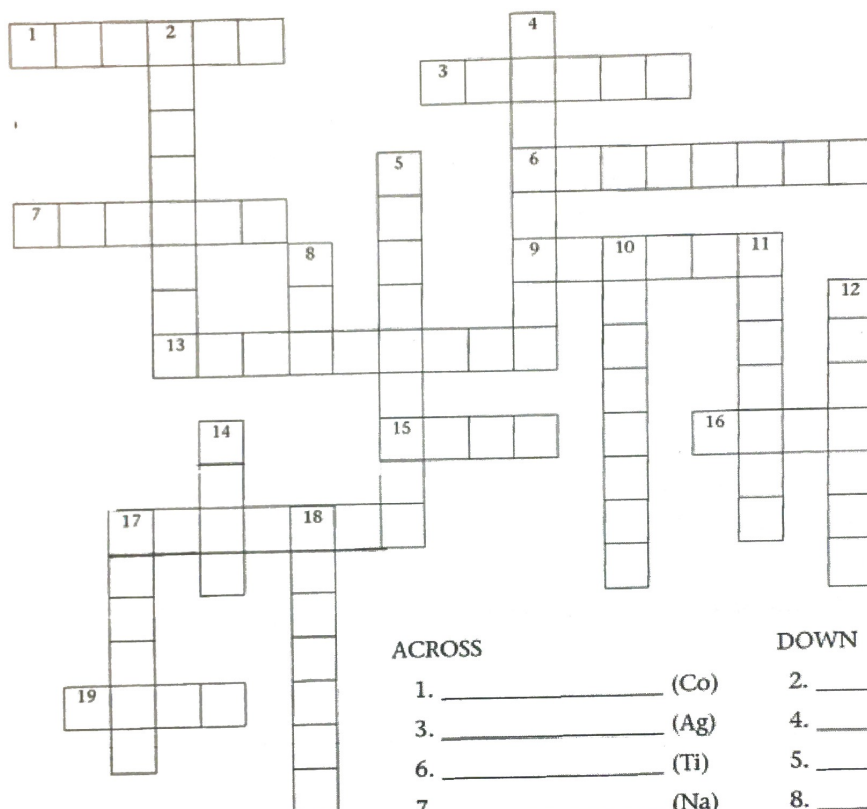
- What does the atomic mass represent? _____

Name _____ Date _____



Activity 4: The Metals Crossword

Directions: Use the chemical symbols given in the "Across" and "Down" clues to determine each element name. Write the element name on the line by the chemical symbol for each metal. Then write the element name in the puzzle.



ACROSS

1. _____ (Co)
3. _____ (Ag)
6. _____ (Ti)
7. _____ (Na)
9. _____ (Ni)
13. _____ (Mg)
15. _____ (Fe)
16. _____ (Zn)
17. _____ (Ca)
19. _____ (Pb)

DOWN

2. _____ (Al)
4. _____ (Pt)
5. _____ (K)
8. _____ (Sn)
10. _____ (Cr)
11. _____ (Li)
12. _____ (Hg)
14. _____ (Au)
17. _____ (Cu)
18. _____ (Ir)



Name _____ Date _____



Activity 13: Elemental Math

Directions: Replace the symbol for each element below with the correct atomic number. Then complete the equation. Finally, translate the answer back into the element symbol.

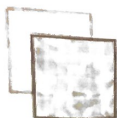
Example: $H + He = \underline{\quad}$ would be calculated as $1 + 2 = 3$. 3 is the atomic number for lithium, so the equation would be $H + He = Li$.

1. $Cl + He = \underline{\hspace{2cm}}$
2. $Tc + Ag - Ne = \underline{\hspace{2cm}}$
3. $(H + Br) \div Li = \underline{\hspace{2cm}}$
4. $(Cs + Pa) \div He = \underline{\hspace{2cm}}$
5. $Na \times Be + C = \underline{\hspace{2cm}}$
6. $Re \div (Sc + Be) = \underline{\hspace{2cm}}$
7. $Fm \div Mn \times Be = \underline{\hspace{2cm}}$
8. $In \div N \times B + Es - Mn = \underline{\hspace{2cm}}$
9. $C^{He} \times Ne \div Mg = \underline{\hspace{2cm}}$
10. $Te + Xe - Sg + As + Pd = \underline{\hspace{2cm}}$
11. $(Pm - Sb) \times O + F = \underline{\hspace{2cm}}$
12. $[(Zr + Ge) \div F] + [Xe \div C \times Li - Mg] = \underline{\hspace{2cm}}$



Name _____

Date _____



Activity 16: Unusual Element Symbols

Eleven elements have names that are unlike their symbols. This is because ten of the symbols are based on Latin words, and one is based on a German name (see example). By decoding the numbers below, you can find the Latin names for these symbols.

Directions: Number the letters of the alphabet from 1 to 26. For example, A is 1, B is 2, etc. Then write the letter each number represents on the line above that number. After you are finished decoding the numbers, write the common element name next to its symbol.

	SYMBOL	ELEMENT	GERMAN NAME
Example:	W	<u>tungsten</u>	<u>W</u> <u>O</u> <u>L</u> <u>F</u> <u>R</u> <u>A</u> <u>M</u> 23 15 12 6 18 1 13

SYMBOL	ELEMENT	LATIN NAME
1. Ag	_____	<u>1</u> <u>18</u> <u>7</u> <u>5</u> <u>14</u> <u>20</u> <u>21</u> <u>13</u>
2. Au	_____	<u>1</u> <u>21</u> <u>18</u> <u>21</u> <u>13</u>
3. Cu	_____	<u>3</u> <u>21</u> <u>16</u> <u>18</u> <u>21</u> <u>13</u>
4. Fe	_____	<u>6</u> <u>5</u> <u>18</u> <u>18</u> <u>21</u> <u>13</u>
5. Hg	_____	<u>8</u> <u>25</u> <u>4</u> <u>18</u> <u>1</u> <u>18</u> <u>7</u> <u>25</u> <u>18</u> <u>21</u> <u>13</u>
6. K	_____	<u>11</u> <u>1</u> <u>12</u> <u>9</u> <u>21</u> <u>13</u>
7. Na	_____	<u>14</u> <u>1</u> <u>20</u> <u>18</u> <u>9</u> <u>21</u> <u>13</u>
8. Pb	_____	<u>16</u> <u>12</u> <u>21</u> <u>13</u> <u>2</u> <u>21</u> <u>13</u>
9. Sn	_____	<u>19</u> <u>20</u> <u>1</u> <u>14</u> <u>14</u> <u>21</u> <u>13</u>
10. Sb	_____	<u>19</u> <u>20</u> <u>9</u> <u>2</u> <u>9</u> <u>21</u> <u>13</u>

