Name:	Date:		Properties of M
Metals	, Nonmetals, and Metalloids		Found on th
Properties of Meto	als (Slide 2)		Have
•			Can be
•	_ melting point		Examples of M
Mostly	or in color		.xamples of M
Mostly temperature	at room temperature – Mercury (Hg) is a liquid at room		
•	– able to be hammered into a thin sheet		
•	_ – able to be drawn/pulled into a wire		<u>Periodic Table</u> Elements.
•	of heat and electricity		H Hubyan 1.0974
Examples of Meta  Properties of None	——————————————————————————————————————		Li B Limin No. 1  Na M 221907713  19 2  K 2319772  K 377 3  Rb S 8000000000000000000000000000000000000
•	_melting point	,	L Checkpoint (Si
	break easily		Question 1: Id
<ul><li>Not</li><li>Not</li></ul>		<u> </u>	Question 2: Id
• Examples of Nonr	of heat and electricity  metals (Slide 5)	2	Question 3: Id
·			Question 4: W netal?
·	_	<u>(</u>	Question 5: Is

- he "\_\_\_\_\_" line on the Periodic Table of Elements
- \_\_\_\_\_ of both metals and nonmetals
- \_\_\_\_\_ or \_\_\_\_
- \_\_\_\_ able to conduct \_\_\_\_\_ under certain conditions

#### <u> Netalloids (Slide 7)</u>

(Slide 8) – Create a key and color code the Periodic Table of

1																	2
н																	He
Hologon 1.00794																	5.6m 4.003
3	4	1										5	6	7	8	9	10
Li	Be											В	C	N	0	F	Ne
5.941	2012192											Desc.	Calles 12.0107	Name 14.00674	Ovegan 15 9994	Tuesday 18.008/00/27	Ness 29.1797
- 11	12	1										13	14	15	16	17	18
Na	Mg											Al	Si	P	S	CI	Ar
Solve: 22.989719	36.3050											Aberium 26.581538	58ion 28:0855	Regions 30-813154	Sulfar 32 mag	25.4527	Augus 39.948
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
K	Ca	Se	Ti	v	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr
700,0003	Calcium 40.078	Sention 44.959930	17.887	Yunation 90.9419	11.9961	Negross 54 938049	51.841	Colum 58.933200	70.6d 58.6934	63.546	68.39	69.723	52.60	Americ 74.52160	5.6mian 78.96	70.934	57,80 83.80
37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54
Rb	Sr	Y	Zr	Nb	Mo	Te	Ru	Rh	Pd	Ag	Cd	In	Sm	Sb	Te	I	Xe
85.4678	50 perion 87.62	Titrium BE CORES	24 contam 51,224	Notice 52,90638	95.94	Totacion (78)	Reference 101.07	Worken 102,50050	748a/cm 196.42	501er 107.8682	112.411	helon 114.818	No. 138,790	/animony 121.769	Tollation 127.68	Indio: 126.90447	Name 131.29
55	56	57	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86
Cs	Ba	La	Hf	Ta	w	Re	Os	Ir	Pt	Au	Hg	TI	Pb	Bi	Po	At	Rn
Covies 152:90848	137.327	158.9055	176.49	Totales 180-9479	Temper 183.84	186.207	Denium 190,23	192.297	795.978	GM 176.76655	209.59	Traffice 204.3853	307.2	Seauth 204,99038	(209)	(210)	Ratio (222)
87	88	89	104	105	106	107	108	109	110	111	112	113	114	200.180.00	1,2000	Carro	14442
Fr	Ra	Ac	Rf	Db	Sg	Bh	Hs	Mt									
(223)	(126)	(227)	(261)	(262)	Suborpani (267)	(262)	(265)	(306)	(200)	(212)	(27%						
Terror   Jensey   Terror   Ter																	
ı				58	59	60	61	62	63	64	65	66	67	68	69	70	71
ı				Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
l				Cariom 140.116	140.90765	144.24	(145)	Smarten 158.36	151.964	157.25	Tortium 158.92534	Degenous 162.50	164 93832	169an 167.26	1568-93421	7000um 173.04	174.967
I				90	91	92	93	94	95	96	97	98	99	100	101	102	103
I				Th	Pa	U	Np	Pu	Am	Cm	Bk	ct	Es	Fm	Md	No	Lr
I				712.0381	201.02588	218.0289	(237)	(360)	CM35	Corose (247)	(247)	Childrenus (2915)	(257)	(257)	(258)	C2599	(202)

#### ilides 9-14)

dentify 2 metals other than the ones previously listed.

lentify 2 nonmetals other than the ones previously listed.

dentify 2 metalloids other than the ones previously listed.

hy do you think many kitchen cooking utensils are made out of

Aluminum a metal, nonmetal, or metalloid? Explain.

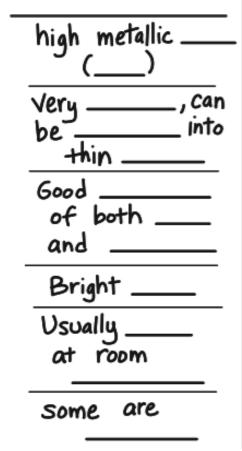


## METALS, NONMETALS, AND METALLOIDS

# Matter is made up of 3 main groups

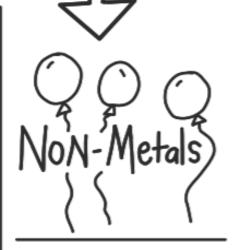








can be or
can be
partially conduct
light
at room

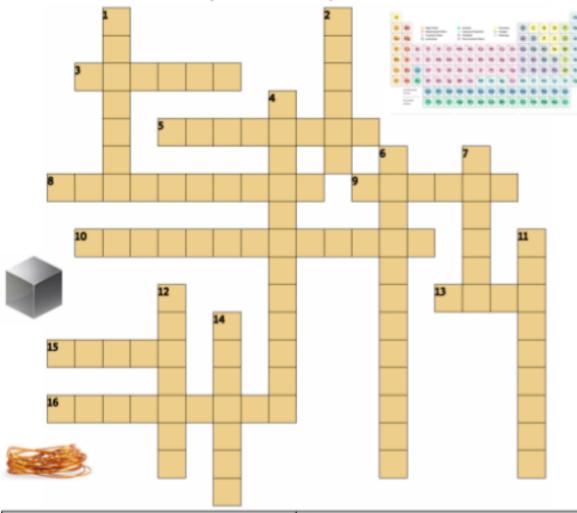


Non-metallic
if a Solid
Poor and electricity, but are good
No
can be, or

N	ame:				

#### Metals, Nonmetals, and Metalloids - Crossword Puzzle

Complete the crossword puzzle below.



#### Across

- Elements are found on the left side of the staircase (zigzag line) of the periodic table.
- The only nonmetal element on left side of the periodic table.
- Elements that have properties of both metals and nonmetals.
- A nonmetal element that has the chemical symbol "C".
- An organized arrangement of elements according to their atomic number.
- 13. A metal element that has the chemical symbol "Fe".
- 15. A metalloid element that has the chemical symbol "B".
- The ability to be pulled into thin wires without breaking.

#### Down

- 1. A pure substance containing only one type of
- A property that defines how an element reflects light from its surface.
- The ability of a substance to conduct electrical current.
- The ability of a substance to be pounded into thin sheets.
- A metal element that has the chemical symbol "Cu".
- 11. Elements are found on the right side of the staircase (zigzag line) of the periodic table.
- A property that describes the amount of matter in a certain volume.
- A metalloid element that has the chemical symbol "Si".

#### Word Bank:

Boron Ductility Iron Metals Metalloids Carbon Hydrogen PeriodicTable Maleability Density Element Conductivity Nonmetals Luster Silicon Copper



### Whodunnit?



Name:\_\_\_\_

Six contestants on a reality TV show were stunned to find their lowest scoring colleague was "injured." They						
must figure out the crime before the bell rings. The question is Whodunnit? And how The Player, Last						
Known Whereabouts and Method that are left unaccounted for is the solution.						

1.		2.				
3.		4.				
5.		6.				
7.		8.				
9.		10.				
	Who is the " ed will reveal the crir	ne. If you cannot figure it out, you may be next.)				
The Players	The Last	at Known The Method				
Professor Astro	Atrium	Chemical Poisoning				
Mrs. Bio	Gym	Cougar Attack				
Mr. Chem	Kitchen	Electrocution				
Dr. Earth	Library	Fallen Object				
Coach Physics	Movie Theater	Stubbed Toe				
Miss Zoo	Pool	Venomous Bite				