Name:	Date:
Periodic Table Scavenger Hunt	
Objectives:	
<ol> <li>SWBAT use the periodic table to name elements, given their symbols.</li> <li>SWBAT use the periodic table to write the symbols of elements, given their SWBAT describe the arrangement of the periodic table</li> <li>SWBAT list the characteristics that distinguish metals, nonmetals and metals.</li> <li>SWBAT efficiently use their text book to gain information.</li> </ol>	
Directions:	
Use the periodic table of elements and your text book to explore and learn to use t	he periodic table.
To answer each of the questions below, draw the <b>atomic number, chemical symb</b> in the boxes provided.	ol and element name
Section 1: Names and Symbols	
1. Find at least 3 elements named after countries	
2. Find at least 3 elements named after scientists (and name the scientist)	

3.	Find 1 element named after a state	and	one named after a continent
4.	Find 3 elements named after planets		
5.	Find 1 element that sounds like your name a	and 1 that sounds	like it should be in a comic book
6.	Find at least 5 elements whose symbols <b>do</b>	not match their na	ames

7. What is the only letter **not** appearing on the periodic table as a symbol or part of the symbol?

## Section 2: Families and Periods

Define:				
1.	Families:			
2.	Periods –			
Withou	it repeating the	e elements you fou	nd above, answer	the following questions:
3.	Find three elem	ents in the same far	nily	
4.	Find three elem	ents in the same pe	riod	

## Section 3: Types of Elements

hydrogen 1 H																		He
1.0079				Key:			_											4.0026
lithium 3	beryllium 4				element name								boron 5	carbon 6	nitrogen 7	oxygen 8	fluorine 9	neon 10
Li	Be				ymb								B	Ċ	N	Ò	F	Ne
6.941	9.0122				ight (mean rela								10.811	12.011	14.007	15.999	18,998	20.180
sodium 11	magnesium 12						•						aluminium 13	silicon 14	phosphorus 15	sulfur 16	chlorine 17	argon 18
Na													ΑĬ	Si	P	Š	ĊΙ	
1 <b>V</b> a	Mg												26.982	28.086	30.974	32.065	35,453	Ar 39.948
potassium	calcium		scandium	titanium	vanadium	chromium	manganese	iron	cobalt	nickel	copper	zinc	gallium	germanium	arsenic	selenium	bromine	krypton
19	20		21	22	23	24	25 N //	26	27	28	29	30	31	32	33	34	35	36
K	Ca		Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr
39.098 rubidium	40.078 strontium		44.956 yttrium	47.867 zirconium	50.942 niobium	51.996 molybdenum	54.938 technetium	55.845 ruthenium	58.933 rhodium	58.693 palladium	63.546 silver	65.39 cadmium	69.723 indium	72.61 tin	74.922 antimony	78.96 tellurium	79.904 iodine	83.80 xenon
37	38		39	40	41	42	43	_44	45	46	47	48	49	50	51	52	53	54
Rb	Sr		Y	Zr	Nb	Мо	Тс	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	- I	Xe
85.468 caesium	87.62 barium		88.906 lutetium	91.224 hafnium	92.906 tantalum	95.94 tungsten	[98] rhenium	101.07 osmlum	102.91 iridium	106.42 platinum	107.87 gold	112.41 mercury	114.82 thallium	118.71 lead	121.76 bismuth	127.60 polonium	126.90 astatine	131.29 radon
55	56	57-70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86
Cs	Ba	*	Lu	Hf	Ta	W	Re	Os	lr	Pt	Au	Hg	ΤI	Pb	Bi	Po	At	Rn
132.91	137.33		174.97	178.49	180.95	183.84	186.21	190.23	192.22	195.08	196.97	200.59	204.38	207.2	208.98	[209]	[210]	[222]
francium 87	radium 88	89-102	lawrendum 103	rutherfordium 104	dubnium 105	seaborgium 106	bohrlum 107	hassium 108	meitnerium 109	ununnilium 110	unununium 111	ununblum 112		ununquadium 114				
Fr	Ra	**	Lr	Rf	Db	Sg	Bh	Hs	Mt	Hun	Umm	Uub		Uuq				
[223]	[226]		[262]	[261]	[262]	[266]	[264]	[269]	[268]	[271]	[272]	[277]		[289]				
															•			
			lanthanum		praseodymium	neodymium	promethium	samarium	europium	gadolinium	terbium	dysprosium	holmium	erbium	thulium	ytterbium		
			57	58	59	60	61	62	63	64	65	66	67	68	<b>6</b> 9	70		
	*lantha	inoids	La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Нο	Er	Im	Yb		
	138.91   140.12   140.91   144.24   [145]   150.36   151.96   157.25   158.93								162.50 californium	164.93 einsteinium	167.26 fermium	168.93 mendelevium	173.04 nobelium					
	89 90 91 92 93 94 95 96 97 98										99	100	101	102				
	**actin	oids	Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No		
			[227]	232.04	231.04	238.03	[237]	[244]	[243]	[247]	[247]	[251]	[252]	[257]	[258]	[259]		

**Metals:** 

Metalloids

**Nonmetals** 

## **Noble Gases**

- 1. Find the element that makes plumbing pipes. Is it a metal, nonmetal or metalloid?
- 2. Find the element that makes glowing signs, what special group is it in?
- 3. Find the element that makes milk good for your health. Is it a metal, nonmetal or metalloid?