Periodic Table Basics

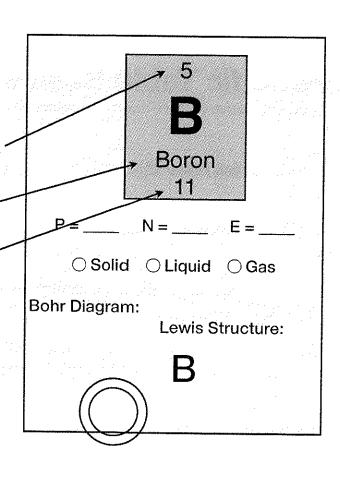
Step 1: Complete the periodic table box for each element.

- Write the element's atomic number at the top
- Write the element's name under the symbol
- Write the atomic mass at the bottom

Step 2: Determine the number of protons, neutrons, and electrons in each element.

Step 3: Darken the correct circle to show if the element is a solid (S), liquid (L), or gas (G) at room temperature.

Step 4: Create a Bohr Diagram and a Lewis Structure Diagram for each element.



Step 5: Use colored pencils to shade in ONLY the period table box for each element – notice the grey section of the example. Use the following colors for each:

Step 6: Cut the cards apart and arrange by atomic number on a large sheet of construction paper, as shown in the pattern below:

Li & Na = Dark Blue

O & S = Light Green

Be & Mg = Light Blue

F & CI = Dark Green

B & Al = Purple

C & Si = Red

N & P = Brown

He, Ne & Ar = Orange

Hydrogen = Leave White

1		,						2
3	4	small space	5	6	7	8	9	10
11	12		13	14	15	16	17	18

Step 7: Arrange the cards on the page so that numbers 11 and 18 are at the very edge of the two bottom corners. After you have the cards arranged in the correct order, glue them to the paper. Add a title at the top of the page along with your name.

		Name:		Per
)	eriodic Table Bas	sics	Barry C. Harris C.	
	Which elements have complete vale		ive the name and	symbol for each.
	What do you notice about the locati	on of the elements I	isted above?	
		en e		
•	Which elements have only one vale	nce electron? Give tl	he name and sym	bol for each.
	What do you notice about the locati	on of the elements I	isted above?	
•	What do you notice about the numl across a row or period in the period		and the second s	7.7
•	What do you notice about the numl group or column in the periodic tab	~ -	or shells as you	move <u>down a</u>
	Write the name of each family at the	top of the columns	on your periodic	table using the
1	following information:	era Albania (periodo)		
	Alkali Metals: 1 e	Nitrogen Far		ing di kacamatan di Kacamatan di kacamatan di kacama
	Alkaline Earth Metals:	2 e Oxygen Fam	ıily: 6 e	
	Boron Family: 3 e	Halogens: 7	e	
	Carbon Family: 4 e	Noble Gases	s: 8 e	
	What do you notice about the locati	on of the elements i	n each family?	
	In what family would you classify H	ydrogen? Explain yo	ur choice.	
)	In what family would each of the fol	lowing elements be	classified?	
	Radium:	Tin:		
	lodina:	Casium:		
	lodine:	Cesium:		
1,	Predict the number of valence elect Periodic Table of Elements.	rons for each eleme	nt based on its lo	cation in the
	Barium: Lead: Bi	smuth: Pot	assium: F	Radon: