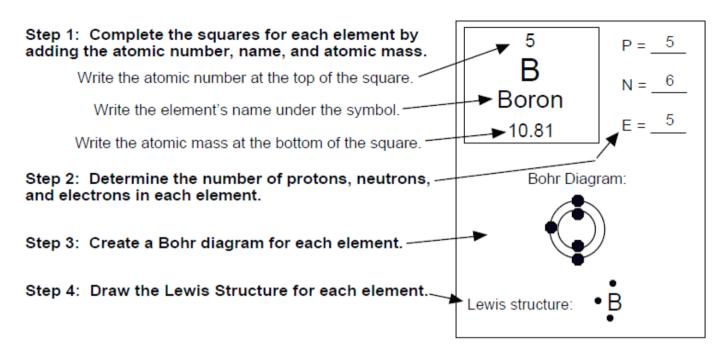
Lab: Períodic Table Basics







Materials: Large piece of paper (11x17), scissors, colored pencils, glue, periodic table, cut-out page



Step 5: Use the following colors to shade in the square for each element. You should ONLY color in the small square in the upper left-hand corner and not the entire card.

Step 6: Cut the cards apart and arrange <u>according to atomic number</u> in the pattern shown below. Once you have the cards arranged in the correct order, glue them to a large sheet of construction paper.

 1
 2

 3
 4
 5
 6
 7
 8
 9
 10

 11
 12
 13
 14
 15
 16
 17
 18

Step 7: Answer the questions on the back of this worksheet using the information on your Periodic Table.

Use the periodic table you made to answer the following questions:







Which elements had complete outer shells?	Give the name and symbol for each.	
What do you notice about the location of the		
Which elements had only one valence electron	on?	
4. What do you notice about the location of the		
 What do you notice about the number of vale row or period in the periodic table? (Na → Mg - 		nt across a
 What do you notice about the number of e column in the periodic table? (H → Li → Na) 	energy levels or shells as you move down	n a group or
7. Elements are organized into families according elements that you used in Step 5 that belon electrons. Give the name and symbol for each e	ng to each family based on the number	
Alkali Metals - 1 valence electron	&	
Alkaline Earth Metals - 2 valence electrons	&	
Boron Family - 3 valence electrons	&	
Carbon Family - 4 valence electrons	&	
Nitrogen Family - 5 valence electrons	&	
Oxygen Family - 6 valence electrons	&	
Halides - 7 valence electrons	&	
Noble Gases - Complete outermost shell	, &	
8. What do you notice about the location of the		
9. How would you classify hydrogen? Why?		
10. Predict the number of valence electrons for e of Elements. You will need to use the table in y		eriodic Table
Barium = Lead =	Xenon = Potassium =	