Periodic Table Basics

Step 1: Complete the square for each element by filling in the atomic number, name, & atomic mass.

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

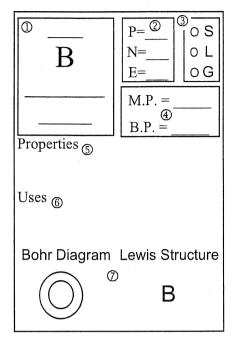
Step 3: Identify if the element is a solid, liquid, or gas at room temperature.

Step 4: Give the melting (M.P.) and boiling points (B.P.) in degrees Celsius.

Step 5: List at least three physical or chemical properties for each element.

Step 6: List at least three uses for each element.

Step 7: Draw a Bohr diagram and Lewis Structure to show the arrangement of electrons and the number of valence electrons.

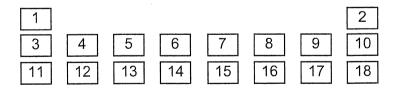


Step 8: Use the following colors to shade in the square for each element. You should ONLY color the small square in the upper left-hand corner and not the entire card.

Green = Li & Na Orange = B & Al Pink = 0 & S Red = C & Si Blue = Be & Mg Tan = N & P Purple = F & Cl

Yellow = He, Ne, & Ar

Step 9: Cut the cards apart and arrange <u>according to atomic number</u> in the pattern shown. Once you have the cards arranged in the correct order, glue them to a large sheet of construction paper.



Done? Answer the questions on the worksheet using the information on your Periodic Table!



Need information? Visit the Periodic Table links on the <u>Chemistry</u> page of the <u>Kid Zone!</u>

Go to http://sciencespot.net/ and click the Kid Zone graphic!

Periodic Table Basics

Name	

Use your periodic table to answer each question.

	J	se your periodic table to a	mawer each question.	
1.	How many elements i	n your table were:		
	(a) solids?	(b) liquids?	(c) gases?	
2.	Which elements had co	omplete outer shells? Give th	ne name and symbol for each.	
3.	What do you notice at	pout the <u>location</u> of the elemer	nts in Question #2?	
4.	Which elements had c	only <u>one valence electron</u> ? Giv	ve the name and symbol for each.	
5.	. What do you notice al	pout the <u>location</u> of the elemen	ents in Question #4?	
		bout the <u>number of valence e</u> iodic table? (Example: Na →	electrons as you move from left to right ac → Ar)	cross a
	. What do you notice a the periodic table? (E		<u>electrons</u> as you move down a group or c	columr
	•	about the <u>number of energy</u> ole? (Example: H → Li → Na	<u>levels or shells</u> as you move down a gro a)	oup o
	. What do you notice all the periodic table? (E.		u move from left to right across a period (o	or row
	0. What do you notice the periodic table? (E.		ou move from left to right across a period (or row