

# Periodic Table Basics

**Step 1: Complete the squares for each element by adding the atomic number, name, and atomic mass.**

Write the atomic number at the top of the square.

Write the element's name under the symbol.

Write the atomic mass at the bottom of the square.

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

**Step 3: Create a Bohr diagram for each element.**

**Step 4: Draw the Lewis Structure for each element.**

5  
B  
Boron  
10.81

P =   5    
N =   6    
E =   5  

Bohr Diagram:

Lewis structure:  $\cdot\overset{\cdot}{\underset{\cdot}{\text{B}}}$

**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.**

Green = Li & Na  
Orange = B & Al

Pink = O & S  
Red = C & Si

Blue = Be & Mg  
Tan = N & P

Purple = F & Cl  
Yellow = He, Ne, & Ar

**Step 6: Cut the cards apart and arrange according to atomic number 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.**