

# 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:



**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

Pink = O & S

Blue = Be & Mg

Purple = F & Cl

Orange = B & Al

Red = C & Si

Tan = N & P

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.**

# Optics Basics Key Answers

**JS Bruner**



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