

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

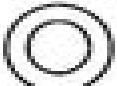
Pink = O & S
Red = C & Si

Blue = Be & Mg
Tan = N & P

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

Step 9: Cut the cards apart and arrange according to atomic number in the pattern shown. 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

① <div style="text-align: center; font-size: 2em;">B</div> <hr/> <hr/>	P= ② N= _____ E= _____	③ O S O L O G
	M.P. = _____ B.P. = ④ _____	
Properties ⑤ Uses ⑥ Bohr Diagram Lewis Structure <div style="display: flex; align-items: center; justify-content: space-around;">  <div style="text-align: center;"> ⑦ B </div> </div>		

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**David Frank, Michael Wyssession, Sophia
Yancopoulos**



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