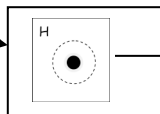


# 2016 Instructions to make periodic table from Valence Electron Drawings: **VALENCE ELECTRON POSTER**

After you finish drawing e- shells and e - dots for 1<sup>st</sup> 20 elements:

1. **Cut** out 20 elements like this



2. Get 11 X 17 paper

3. **Arrange** each element in order like the periodic table on pg179

H		Be	B					He
	Ca							

Group 18  
Full

Val e = \_\_

4. Then **GLUE** them in rows and columns (Transition metal section is eliminated)

5. **Color** each COLUMN (*one different color for each column*),

6. **Label EACH Column:** top: group # \_\_\_\_\_, bottom: valence e- = \_\_\_\_\_. Under group 18 label: Full

7. **Once you have finished all of the above, find the 2 patterns:** Start staring at it until you see it. Please keep it quiet once you discover it - this whole project is based on "can you see the pattern? Check with me when you have written out "a" and "b" neatly in pencil first. Then ink it in neatly.

a. The first pattern I noticed is that \_\_\_\_\_, (and also describe the color/colors and direction associated with this pattern on your poster

b. The second pattern I noticed is that \_\_\_\_\_, (and also describe the color/colors and direction associated with this pattern on your poster