**Excel Periodic Trend Graphing Activity Ms. Drescher**

1. Open Microsoft Excel on your computer
2. Type the following data into your Excel spreadsheet
3. Highlight the data and go to "Insert" and choose a scatter graph connected by lines
4. Right click on the graph and click "move to" then move it to a new sheet so it is nice and big
5. Change the title to something you think is appropriate for the data shown
6. Try to answer the following questions:
7. Across a period atomic radius tends to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. Across a period ionization energy tends to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. Across a period electronegativity tends to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |
| --- | --- | --- | --- |
| Element | Atomic Radius | Ionization Energy | Electronegativity |
| H | 31 | 1312 | 2.1 |
| Li | 128 | 520 | 1 |
| Na | 166 | 496 | 0.9 |
| K | 203 | 410 | 0.8 |
| Rb | 220 | 403 | 0.8 |
| Cs | 244 | 376 | 0.7 |

1. For the next set of data, repeat steps 1-6 above.
2. Down a group atomic radius tends to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Down a group ionization energy tends to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Down a group electronegativity tends to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |
| --- | --- | --- | --- |
| Element | Atomic Radius | Ionization Energy | Electronegativity |
| Na | 166 | 496 | 0.9 |
| Mg | 141 | 738 | 1.2 |
| Al | 121 | 578 | 1.5 |
| Si | 111 | 787 | 1.8 |
| P | 107 | 1012 | 2.1 |
| Si | 105 | 1000 | 2.5 |
| Cl | 102 | 1251 | 3 |
| Ar | 106 | 1521 |  |


