SNC 2P - 2020-05-28 (Thursday)

From: Fred Schlenker <fred_schlenker@bwdsb.on.ca>

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Hello All:

Please check in: https://forms.office.com/Pages/ResponsePage.aspx?id=GAmpRLReCU2WCd35yhGvQuASPjs6aYVFk-EAh60FvohUOE81MjBOWVBJMkwwSVk5NDIwNEtSTFc0NiQlQCN0PWcu

Please have a look at this periodic table: http://www.schlenkerchem.org/2P/Chemistry/periodic%20tables/progression/11.pdf The column on the right that is in purple represents the most stable elements on the periodic table. All elements what to be like these elements!

The goal today is to look at and try to understand http://www.schlenkerchem.org/2P/Chemistry/Worksheets/ws%20octet%20rule%20bohr%20diagrams%20with%20circles.pdf.

Please look at these answers to this sheet: http://www.schlenkerchem.org/2P/Chemistry/Worksheets/ws%20octet%20rule%20bohr%20diagrams%20with%20circles%20answers.pdf

The way the octet rule works is that element want to lose or gain electrons such that there electron arrangement as seen in the Bohr diagram looks like a noble gas. What this means is the nucleus of the atom does not change, but the number of electrons around that atom changes.

When the number of electrons change, the atom is no longer neutral. If the atom loses electrons, it becomes positively charged. If the atom gains electrons, it becomes negatively charged. This is a key concept in chemistry!! Charge is shown as a number and a sign: 2+ means two positive charges, 4- means four negative charges

Please answer these questions while looking at http://www.schlenkerchem.org/2P/Chemistry/Worksheets/ws%20octet%20rule%20bohr%20diagrams%20with%20circles%20answers.pdf

1. How many electrons does a nitrogen gain?
2. What does the charge on the nitrogen become after it has gained these electrons?
3. What neutral atom atom has the same electron arrangement as the nitrogen after it has gained electrons?
4. How many electrons does a magnesium lose?
5. What does the charge on the magnesium become after it has lost these electrons?
6. What neutral atom atom has the same electron arrangement as the magnesium after it has lost electrons?

Mr. Schlenker