



NUEVO COLEGIO DEL PRADO

Science 9th Grade

Guía de Trabajo Semana 1, Marzo 30 – Abril 3

Email: jmunoz@nuevocolegiodelprado.edu.co

Topic: Introduction to Electron Config.

Part 1

1. Observe the blog and check Mr. John's video about Electron Configuration.
2. Based on the video take some notes on your notebook using the PowerPoint Presentation.

Now in your notebook, write the electron configuration of the following elements:

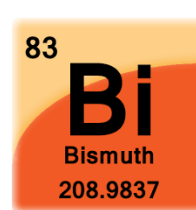
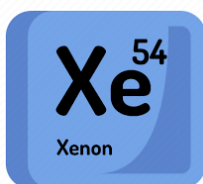
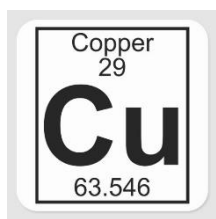
1) copper

2) iodine

3) Xenon

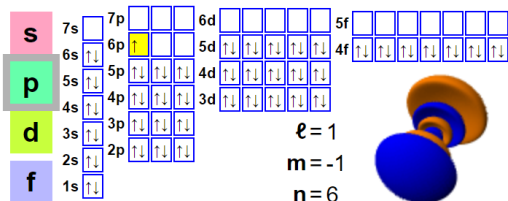
4) bismuth

5) zirconium



3. Finally visit the website on the blog and verify the electron configuration you wrote. Analyze their electron configurations.
4. Click on the interactive Periodic Table link and answer:

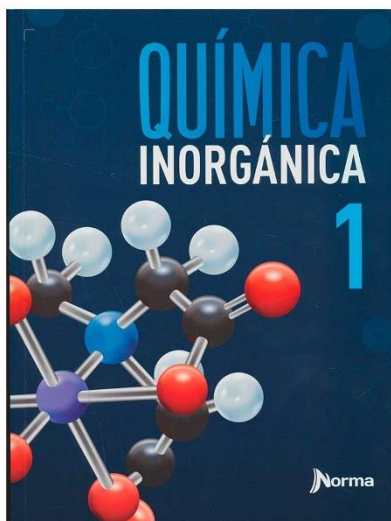
a. Where are located the elements of the periodic table whose electron configuration finishes in **s, p, d, f**?



b. This picture represents the **electron configuration** with each orbital. Go over the **first 30 elements** of the periodic table. (**Hydrogen to Zinc**) and analyze this part of the dynamic periodic table. What do the arrows represent? Do they follow a trend when filling? Answer these questions in your notebook. Visit the Wikipedia website on the blog.

5. As an optional activity download the pdf practice and do the exercises. You don't need to send this to Mr. John, it's just for practice. 😊

Part 2



1. Read, analyze and study pages of the book (**Química Inorgánica 1**) Pages from 36 to 43.
2. After reading click on **the virtual game** about the pages. You have **2 attempts** to obtain the biggest score, the game creates a ranking with all the students. Make sure you don't land in the bottom. **Have fun.**

At the end of the week, Mr. John will check:

1. If you visited the blog and downloaded the activities.
2. Attendance to virtual session. If you can't make it send an email excuse.
3. Ranking of the virtual game.

It's also important to keep your notebook up-to-date even though the teacher is not checking it.

Answers of the exercise:

- | | |
|--------------|--|
| 1) copper | $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^9$ |
| 2) iodine | $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^2 4d^{10} 5p^5$ |
| 3) xenon | $1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 5s^2 5p^6$ |
| 4) bismuth | $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^2 4d^{10} 5p^6 6s^2 4f^{14} 5d^{10} 6p^3$ |
| 5) zirconium | $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^2 4d^2$ |