

- **Resources to use throughout the semester:**

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| 1) Lecture notes     | 5) Office hours (Dr. Mack/ Lab Instructor/ PAL Office/ Chem Help Office) |
| 2) Discussion notes  |  |
| 3) Textbook          | 6) Internet/ Youtube (Avoid generic searches!)                           |
| 4) PAL/ Lab material |  |

1. Directions: After your PAL Facilitator has assigned your group an element, fill in the correct charge and systematic nomenclature chart with your group.

\*NOTE: When naming acids, drop the "Suffix" and add the "Acid Suffix"

	Prefix	Base	Suffix	Acid Prefix/Suffix
<u>   </u> □				
<u>   </u> O □				
<u>   </u> O <sub>2</sub> □				
<u>   </u> O <sub>3</sub> □				
<u>   </u> O <sub>4</sub> □				

2. Other oxyanions that...

Follow systematic pattern	Do not follow systematic pattern

3. A) What are the 7 strong acids?

B) How do you know if an acid is a weak acid?

4. A) What is a diatomic molecule?

B) List all the elements that exist naturally as diatomic molecules.

C) What state do they usually exist as? If there are any exceptions, also list them below.