**Pre-AP Chemistry Weekly Lesson Plans:**

**10/23/17**

ALCOS: 3.) Use the periodic table as a systematic representation to predict properties of elements based on their valence electron arrangement.

a. Analyze data such as physical properties to explain periodic trends of the elements, including metal/nonmetal/metalloid behavior, electrical/heat conductivity, electronegativity and electron affinity, ionization energy, and atomic-covalent/ionic radii, and how they relate to position in the periodic table.

Topic: Electrons

Agenda:

1. Warm Up
2. Finish Excited Electrons Lab
3. Finish Lab Handout

Homework: None

**10/24/17**

ALCOS: 3.) Use the periodic table as a systematic representation to predict properties of elements based on their valence electron arrangement.

a. Analyze data such as physical properties to explain periodic trends of the elements, including metal/nonmetal/metalloid behavior, electrical/heat conductivity, electronegativity and electron affinity, ionization energy, and atomic-covalent/ionic radii, and how they relate to position in the periodic table.

Topic: Electrons

Agenda:

1. Warm Up
2. Electron Configuration Notes
3. Practice Electron Configuration

Homework: Finish Praactice

**10/25/17**

ALCOS: 3.) Use the periodic table as a systematic representation to predict properties of elements based on their valence electron arrangement.

a. Analyze data such as physical properties to explain periodic trends of the elements, including metal/nonmetal/metalloid behavior, electrical/heat conductivity, electronegativity and electron affinity, ionization energy, and atomic-covalent/ionic radii, and how they relate to position in the periodic table.

Topic: Electrons

Agenda:

1. Warm Up
2. Noble Gas Notation Notes
3. Electron Configuration Bingo

Homework: Add Noble Gas notation to worksheet

**10/26/17**

ALCOS: 11.) Construct an explanation that describes how the release or absorption of energy from a system depends upon changes in the components of the system.

1.) Obtain and communicate information from historical experiments (e.g., work by Mendeleev and Moseley, Rutherford's gold foil experiment, Thomson's cathode ray experiment, Millikan's oil drop experiment, Bohr's interpretation of bright line spectra) to determine the structure and function of an atom and to analyze the patterns represented in the periodic table.

Topic: Electrons

Agenda:

1. Warm Up
2. Electron Configuration Battleship

Homework: None

**10/27/17**

ALCOS: 11.) Construct an explanation that describes how the release or absorption of energy from a system depends upon changes in the components of the system.

1.) Obtain and communicate information from historical experiments (e.g., work by Mendeleev and Moseley, Rutherford's gold foil experiment, Thomson's cathode ray experiment, Millikan's oil drop experiment, Bohr's interpretation of bright line spectra) to determine the structure and function of an atom and to analyze the patterns represented in the periodic table.

Topic: Electrons

Agenda:

1. Warm Up
2. Electron Configuration Battleship

Homework: None