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

**10/30/17**

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. Quantum Number Notes

Homework: None

**10/31/17**

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. Halloween Demos
3. Paragraph on Halloween Demos

Homework: Finish Paragraph

**11/01/17**

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 Quiz
3. Test Outline

Homework: Study

**11/02/17**

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. Turn in Warm Ups
2. Electron Test

Homework: None

**11/03/17**

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. Periodic Table Review
3. Making a Periodic Table (using project sheets)

Homework: None