Maureen M. Drees

Chemistry Lesson Plans

February 5-9, 2018

Note: Wednesday is a 1:25 dismissal for professional development.

Essential concepts and skills emphasized in the week’s lessons will be highlighted.

Disciplinary Core Ideas

Life Science

1. From molecules to organisms: Structures and processes

2. Ecosystems: Interactions, energy, and dynamics

3. Heredity: Inheritance and variation of traits

4. Biological Evolution: Unity and diversity

Earth and Space Science

1. Earth’s place in the universe
2. Earth’s systems
3. Earth and human activity

Physical Science

1. **Matter and its interactions**
2. Motion and stability: Forces and interactions
3. Energy
4. Waves and their applications in technologies for information transfer

Science and Engineering Practices

1. Asking questions and defining problems
2. **Developing and using models**
3. Planning and carrying out investigations
4. **Analyzing and interpreting data**
5. Using mathematics and computational thinking
6. **Constructing explanations and designing solutions**
7. **Engaging in argument from evidence**
8. **Obtaining, evaluating, and communicating information**

Cross-Cutting Concepts

1. Patterns
2. Cause and effect
3. Scale, proportion, and quantity
4. **Systems and system models**
5. **Energy and matter**
6. **Structure and function**
7. Stability and change

Monday--

* 1. Element of the Day
  2. Check Multiple Bonds Lewis Structure WS
  3. Notes—Review naming and writing formulas for ionic compounds, model writing names and formulas for covalent compounds, guided practice
  4. Naming Compounds, Writing Formulas WS

Tuesday—

* + 1. Element of the Day
    2. Check Naming Compounds, Writing Formulas WS
    3. WS 5-7

Wednesday—shortened periods

* + - 1. Check WS 5-7
      2. SR 1-10 pg 207

Thursday—

* + - * 1. Element of the Day
        2. Check SR 1-10 pg 207
        3. Students use content frame to organize steps in determining molecular shape based upon the VSEPR Theory as I present a think aloud using wooden models

Friday—

Element of the Day

Finish content frame, if needed

In pairs or trios, students use wooden beads to construct three-dimensional models of covalent compounds, I okay models as they are made