Maureen M. Drees

Chemistry Lesson Plans

December 11-15, 2017

Note: Wednesday is a 2:25 dismissal.

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. Chapter 4 Test—The Periodic Table

Tuesday—

* + 1. Element of the Day
    2. Go over test, journal
    3. Semester test to this point
    4. Clean out folders, save periodic table
    5. Keep old folder of old tests until semester test
    6. Preview semester test
    7. Notes—Achieving Noble Gas Configurations, Writing Electron Configurations for Ions

Wednesday—shortened schedule

* + - 1. Element of the Day
      2. Read 5.1 Simple Ions pages 158-165
      3. SR 1-9 pg 165

Thursday—

* + - * 1. Element of the Day
        2. Check SR 1-9 pg 165
        3. Demonstration—Achieving a Stable Octet (Mg + HCl)
        4. Two Column Notes—Names and Formulas of Ionic Compound (without polyatomic ions)
        5. Guided Practice

Friday—

Element of the Day

Board Problems—Names and Formulas of Ionic Compounds

Go Fishing for Semester Test Vocabulary

Semester Test Vocabulary Review WS