Maureen M. Drees

Chemistry Lesson Plans

April 30-May 4, 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. Go over Chapter 8 Test, journal
  2. Semester grades to this point
  3. Clean out folders, save periodic table, VSEPR chart, 5 Types of Equations content frame
  4. Chapter 9.1 Reading Guide—Calculating Quantities in a Reaction

Tuesday—

* + 1. Check 9.1 Reading Guide Calculating Quantities in a Reaction
    2. Use glass beaker sets to help students understand that unequal amounts of reactants can be made, and usually are, involved in chemical reactions. The reactant that runs out to the point that no more products can be formed limits the reaction.
    3. Model, guided practice—Converting Between Amounts in Moles and Mass
    4. PB 1-4 pg 307

Wednesday—shortened periods

* + - 1. Check PB 1-4 pg 307
      2. Board Problems—Mole Conversions, Mass Conversions

Thursday—

* + - * 1. Model, guided practice—Problems Involving Number of Particles, look at Stoichiometry Chart
        2. PD 1-2 pg 311 + CR 36 pg 331

Friday—

Check PD 1-2 pg 311 + CR 36 pg 331

Examine graphic organizer—paths to get into and out of molar conversions

WS 2-3