Maureen M. Drees

Chemistry Lesson Plans

November 6-10, 2017

Note: Wednesday is a 2:25 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 Electron Configuration WS II
  3. Watch You Tube videos of The Element Song
  4. Trial Run at Naming Elements and their Symbols
  5. Check against master sheet
  6. Vocabulary WS

Tuesday—

* + 1. Element of the Day
    2. Check Vocabulary WS
    3. Finger Review
    4. Board Problems—Isotopes
    5. Second Trial Run at Naming Elements and their Symbols
    6. Check against master sheet
    7. Use large flashcards, if time

Wednesday—shortened schedule

* + - 1. Element of the Day
      2. Students match units of measure with an item counted in that unit
      3. Students examine beakers with moles of different atoms and compounds measured out to get a feel for the amount of substance that a mole would be
      4. Model and guided practice—Factor Label Method—converting amount in moles to mass and amount in moles to number of particles

Thursday—

1. Element of the Day

1. Review converting moles to mass and moles to number of particles and vice versa (4 categories of problems)
2. PD 1-4 pg 102 + PE 1-3 pg 103

Friday—

* + - * 1. Element of the Day
        2. Check PD 1-4 pg 102 + PE 1-3 pg 103
        3. Board Problems—Mole to mass, mole to number of particles, and vice versa, confirm to go on
        4. SR 1-10 pg 104