Maureen M. Drees

Chemistry Lesson Plans

October 2-6, 2017

Note: Wednesday is a 1:25 dismissal for professional development. Friday is the blood drive from 8:00 to 2:00.

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 Specific Heat, Converting C to K WS
  3. Board Problem—Specific Heat
  4. WS 1-2

Tuesday—

* + 1. Element of the Day
    2. Check WS 1-2
    3. Bring in Teflon, bright purple clothing, ask how they relate to refrigerators and fighting malaria, use to discuss scientific method
    4. Notes—Scientific Method, Hypothesis, Laws, Theories

Wednesday—shortened schedule

1. Element of the Day
2. Journal—Teflon… or Purple Clothes…
3. Notes—Accuracy and Precision
4. Read pages 46-53—Studying Matter and Energy
5. WS 3-4 (#1 has 7 steps)

Thursday—

1. Element of the Day
2. Check WS 3-4
3. Journal—The difference between accuracy and precision is…
4. Notes—Significant Digits, Rounding 5 Rule
5. WS—Significant Digits, Rounding 5 Rule

Friday—

* + - 1. Element of the Day
      2. Check Significant Digits, Rounding 5 Rule
      3. Board Problems—Significant Digits, Rounding 5 Rule
      4. Notes—Significant Digits when Adding and Subtracting
      5. WS—Adding and Subtracting Sig Dig