Maureen M. Drees

Chemistry Lesson Plans

September 11-15, 2017

Note: Tuesday afternoon there will be a substitute while I’m at the District Leadership Team meeting. Wednesday is a 2:25 dismissal for professional development. Friday afternoon we will decorate halls and sprit boards for Homecoming.

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 Factor Label WS
  3. 3 Minute Journal—How to Use Factor Label Method
  4. Draw numbers to share aloud
  5. Board Problems
  6. Model, Guided Practice—Converting Units with Squares and Cubes
  7. Factor Label WS with Squares and Cubes

Tuesday—Substitute

1. Element of the Day
2. Check Factor Label WS with Squares and Cubes
3. Use vegetable oil, corn syrup, and water with food coloring to introduce density
4. Notes—Physical vs. Chemical Property, derived unit

Wednesday—shortened schedule

1. Element of the Day
2. Model, guided practice—Calculating Density
3. Calculating Density WS

Thursday—

1. Element of the Day
2. Check Calculating Density WS
3. Factor Label Board Problems with Squares and Cubes
4. Read pages 15-19
5. Finish rest of 1.2 Graphic Organizer

Friday—may adjust periods

1. Element of the Day
2. Check rest of 1.2 Graphic Organizer
3. WS 5-6