Maureen M. Drees

Chemistry Lesson Plans

August 28-September 1, 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. Use sugar free gum and chemical formulas for sugar and sugar substitute to introduce idea of chemistry in everyday life (review expectation for notes)

Tuesday—

1. Element of the Day
2. Students match household products with chemicals that are contained within them (work in groups divided by birth dates)
3. Walk through Textbook Scavenger Hunt
4. Complete Textbook Scavenger Hunt

Wednesday—shortened schedule

1. Element of the Day
2. Check Textbook Scavenger Hunt, take daily grade
3. Read pages 4-9 What is Chemistry and complete graphic organizer

Thursday—

1. Element of the Day
2. Check Graphic Organizer
3. Review the Four Types of Evidence for Chemical Change, put in discussion notes
4. Evolution of Gas—Magnesium in HCl-Demo
5. WS 1-2

Friday—

1. Element of the Day
2. Check WS 1-2
3. Color Change Demo—Cooper in Nitric Acid (in brown bottle with blue lid)
4. Sort words into two categories—matter or not matter
5. Examine definition of matter, check categories
6. Complete together Categories of Matter Graphic Organizer