Maureen M. Drees

Chemistry Lesson Plans

September 4-8, 2017

Note: Monday is Labor Day. 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—doesn’t meet

Tuesday—

1. Element of the Day
2. Demo—Absorption of Energy—Chemical Cold Pack
3. Finish Graphic Organizer, if needed
4. 3 Minute Journal—Evidence for Chemical Change, Categories of Matter
5. Draw numbers to share out
6. Students read pages 10-13, complete graphic organizer up to factor label method

Wednesday—shortened schedule

1. Element of the Day
2. Check Graphic Organizer
3. Periodic Table WS

Thursday—

1. Element of the Day
2. Check Periodic Table WS
3. [www.htwins.net/scale/](http://www.htwins.net/scale/) using Chrome books to visualize Orders of Magnitude
4. 3 Minute Journal—Orders of Magnitudes Surprises, Wonder
5. Draw numbers to share out

Friday—

1. Element of the Day
2. Model using the Factor Label Method to convert from SI units with one prefix to another
3. Guided Practice
4. Factor Label WS