Maureen M. Drees

General Science Lesson Plans

April 2-6, 2018

Note: Monday is Easter break. 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. Go over Chapter 11 Test—Introduction to Atoms
  2. Semester grades to this point
  3. Clean out folders, save periodic tables
  4. Begin to read, discuss, and take book notes over 12.1 Arranging the Elements pages 336-342

Wednesday—shortened periods

* + 1. Finish reading, discussing, and taking book notes over 12.1 Arranging the Elements pages 336-342
    2. Examine physical samples of metals and non-metals

Thursday—

* + - 1. Group students into boys and girls; hometowns; birthday seasons—relate to ways of classifying elements
      2. Brainstorm examples with students of people in their families who look alike or share personality traits—relate to families of elements that share properties
      3. Begin to read, discuss, and take book notes over 12.2 Grouping the Elements pages 344-351 (examine photographs in book, locate groups on wall’s periodic table)

Friday—

* + - * 1. Continue reading and taking book notes over 12.2 Grouping the Elements pages 344-351
        2. Locate each group on wall’s periodic table
        3. Look at pictures of elements in each group in The Elements book