Maureen M. Drees

General Science Lesson Plans

September 25-29, 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. Finish reading and taking book notes together on Chapter 2, Section 1 What is Matter?
  2. Demonstrate how to measure mass
  3. Measuring Mass Lab

Tuesday—

* + 1. Discuss Measuring Mass Lab, hand in
    2. Contrast measuring mass and weight, T Chart in Notes
    3. Read and take book notes together over Section 2.2 Physical Properties

Wednesday—shortened schedule

* + - 1. Finish reading and taking book notes over 2.2
      2. Examine physical properties (thermal conductivity, state, density, solubility, ductility, malleability) with actual objects

Thursday—

* + - * 1. Review Physical Properties
        2. Read and take book notes together over 2.3 Chemical Properties

Friday—

Examine a chemical reaction, Mg in HCl, take notes over evidence that a chemical change happened

Brainstorm and then list evidence of physical changes and chemical changes (pages 51-52)

Go Fish