Maureen M. Drees

General Science Lesson Plans

October 16-20, 2017

Note: Wednesday afternoon is a 2:25 dismissal for teacher work time.

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. Use honey, vinegar, molasses, and corn syrup to discuss viscosity
  2. Journal entry, share
  3. Read and take book notes over Changes of State pages 74-79

Tuesday—

* + 1. Finish reading and taking book notes, if needed
    2. Review boiling/evaporation
    3. Put heating curve in discussion notes
    4. Classify statements as being true for solids, liquids, and gases
    5. Record

Wednesday—shortened schedule

* + - 1. Need coloring supplies for Tuesday
      2. Students look at heating curve and fill in blanks as teacher reads statements about changes of state
      3. Preview Chapter 3 Test—States of Matter—for Monday
      4. Chapter 3 Vocabulary WS

Thursday—

* + - * 1. Check Chapter 3 Vocabulary WS
        2. Walk students through requirements for colored, illustrate heating curve
        3. Students work on Heating Curve

Friday—

Share out Heating Curves, hand in

Prepare for Chapter 3 Test together-draw numbers for vocabulary, matching, states of matter