Maureen M. Drees

Physical Science Lesson Plans

October 30-November 3, 2017

Note: Tuesday Nancy Stammer will sub will Tina and I work with Corey. Wednesday is a 1:25 dismissal for professional development. Thursday is the musical matinee.

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. Go over Chapter 3 Test
  2. Semester grades to this point
  3. Clean out folders
  4. Read together “This Really Happened” page 80, examine samples of sulfur to understand how this weakened steel and may have caused the Titanic to sink
  5. Periodic Table Scavenger Hunt

Tuesday—Mrs. Stammer

* + 1. Go Fish
    2. Distinguish between an Element and a Compound
    3. Read 4.1 Elements and 4.2 Compounds pages 82-89 and take book notes

Wednesday—shortened schedule

* + - 1. Check 4.1 and 4.2 Book Notes
      2. Refer back to Titanic story, discuss the properties of metals and non-metals, think about how this affected the Titanic’s steel
      3. Draw numbers for vocabulary, if time

Thursday—

* + - * 1. Burn magnesium and oxygen again, write chemical formula in discussion notes, talk about how two elements formed a compound
        2. Stir together sugar and salt, talk about how two compounds formed a mixture
        3. Read 4.3 Compounds pages 90-93 and take book notes through Alloys are solid solutions of …

Friday—

Check 4.3 Book Notes through Alloys are solid solutions of…

Whole Class Flashcards

Read 4.3 Compounds pages 93-97 and take the rest of the book notes