Maureen M. Drees

General 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. Check paper and pencil scavenger hunt for elements
  2. Write compounds on board, students identify the elements involved and how many of each element are involved
  3. Mix vinegar and baking soda and then vinegar and powdered sugar, record in discussion notes—which was a compound, which was a mixture
  4. Large flashcards, if time

Tuesday—Mrs. Stammer

* + 1. Read, discuss, and take book notes over 4.2 Compounds pages 94-97
    2. Periodic Table Scavenger Hunt, if time

Wednesday—shortened schedule

* + - 1. Classify statements as compounds or mixtures, discuss, and then record
      2. Read, discuss, and take book notes over 4.3 Mixtures pages 98-110

Thursday—

* + - * 1. Finish book notes
        2. Stir Kool-Aid powder into water, discuss what a solution is, use vocabulary—solute, solvent, and solution
        3. Journal
        4. Draw diagrams to review solute, solvent, and solution

Friday—

Use Kool-Aid powder and water to create a dilute solution and a concentrated solution, record

Examine snow globes on page 104 and use to talk about suspensions, record

Taste Jell-O and Cool Whip and use to talk about colloids, record

Go Fishing