Maureen M. Drees

Physical Science Lesson Plans

September 11-15, 2017

Note: Wednesday is a 2:25 dismissal for professional development. Friday afternoon we will decorate halls and sprit boards for Homecoming.

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. 3 Minute Journal—Things I Know about the Factor Label Method
  2. Share Journal Entries with Partner
  3. Work Factor Label Problem with Partner
  4. Check Factor Label WS
  5. Create Factor Label assignment together
  6. Complete Factor Label assignment

Tuesday—

* + 1. Check Class-Created Factor Label assignment
    2. Partners find area of cardstock rectangles
    3. Class finds density of rock
    4. Notes—Calculating Area and Density
    5. Go Fish for Vocabulary

Wednesday—shortened schedule

* + - 1. Board Problems—Factor Label, Area, Density
      2. Finding Area and Density WS

Thursday—

* + - * 1. Check Finding Area and Density WS
        2. Walk through Mini Lab on Density, Lab Write-Up
        3. Carry out Lab
        4. Write up Lab

Friday—may adjust periods

Discuss Density Mini Lab, hand in write ups

Walk through Mini Lab on Volume of Irregular-Shaped Objects, Lab Write Up

Carry out Lab

Write up Lab