Maureen M. Drees

Physical Science Lesson Plans

January 22-26, 2018

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. Check Chapter Review 1-19 pages 156-157
  2. Go Fish
  3. Prepare for Chapter 6 Test Tuesday

Tuesday—

* + 1. Chapter 6 Test—Forces in Motion
    2. Read or work quietly

Wednesday—shortened periods

* + - 1. Go over Chapter 6 Test, semester grades to this point
      2. Clean out folders, save periodic tables
      3. Blow bubbles, use wire to make different shapes of bubble blowing contraptions
      4. Determine what shape bubbles are and think why (phenomena)

Thursday—

* + - * 1. Review what we learned from bubbles
        2. Examine shoes with little surface area and shoes with more surface area—use to think about pressure=force/area
        3. Remember what a fluid is, what forces and surface area are, what buoyancy is
        4. Think about what influences buoyancy
        5. Walk students through Foil Boat Lab
        6. Draw numbers for groups
        7. Groups of students sketch first foil boat design and reason behind it

Friday—

Check to see how many washers it held

Sketch second foil boat design and reason behind it, build boat

Check to see how many washers it held

Complete lab sheet and hand in

Go Fish, if time