Maureen M. Drees

Physical Science Lesson Plans

December 4-8, 2017

Note: Tuesday afternoon Mr. Zobel will substitute while I’m at the DLT meeting. Wednesday is a 1:25 dismissal.

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 5.2 Book Notes
  2. Predict and then Experiment—Inclined Plane covered with different materials, discuss friction and its effects on motion
  3. 4-Quadrant Brainstorming—Friction Helps, Friction Hurts, Ways to Reduce, Ways to Increase

Tuesday—

* + 1. Review four kinds of friction—sliding, rolling, fluid, static
    2. Classify statements about friction—record numbers, discuss, record statements
    3. Go Fish
    4. Read 5.3 Friction pages 119-124 and take book notes

Wednesday—shortened schedule

* + - 1. Check 5.3 Book Notes
      2. Notes—Converting mass to weight, use triple beam balance and spring scale to remember how to measure each
      3. Mass and Weight WS

Thursday—

* + - * 1. Check Mass and Weight WS
        2. Preview Chapter 5 Test—Motion and Force—for Wednesday
        3. Read 5.4 Gravity: A Force of Attraction pages 125-129 and take book notes

Friday—

Check 5.4 Book Notes

Highlight fill-in-the-blanks

Practice classifying

Math Board Problems

Chapter 5 Vocabulary WS