Maureen M. Drees

General 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. Finish reading and taking book notes 5.4 Gravity: A Force of Attraction
  2. Show picture of standing under Newton’s apple tree
  3. Review differences between mass and weight, classify with numbers, discuss and record as whole class

Tuesday—

* + 1. Examine Newton’s Law of Universal Gravitation, work out generalizations and record in discussion notes
    2. Preview Chapter 5 Test—Matter in Motion—for Thursday
    3. Go Fish
    4. Chapter 5 Vocabulary WS

Wednesday—shortened schedule

* + - 1. Check Chapter 5 Vocabulary WS
      2. Draw numbers to practice vocabulary
      3. Prepare for test—Ways to Reduce Friction, Ways to Increase Friction, Speed, Velocity, Acceleration, Mass vs. Weight, Newton’s Law of Universal Gravitation, Adding and Subtracting Forces

Thursday—

* + - * 1. Chapter 5 Test—Matter in Motion
        2. Read or work quietly

Friday—

Go over Chapter 5 Test

Journal, Semester Grade to this point

Clean out folder, save periodic table

Demo—One vs. Ten Pennies, One vs. Ten Coffee Filters, introduce gravity and air resistance

Begin to read and take book notes 6.1 Gravity and Motion up to page 153