Maureen M. Drees

Physics Lesson Plans

January 1-5, 2018

Note: Monday, Tuesday, and Wednesday will be winter break.

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—doesn’t meet

Tuesday—doesn’t meet

Wednesday—doesn’t meet

Thursday—

* 1. Use puzzle pieces to establish new seating chart
  2. Assign new physics numbers on Monday, show book covers on Monday
  3. Complete the before side of the Anticipation Guide over the Newton readings together
  4. Walk students through how they will complete the after side, marking likely or unlikely, fixing the unlikely statements, and providing the article, page, column that can be cited as evidence
  5. Students read the four articles on Newton’s life and his Three Laws and complete the after side of the Anticipation Guide

Friday—

* + 1. Check after side of Newton’s anticipation guide
    2. Walk students through setting up matchbook for Chapter 4—Forces and the Laws of Motion—vocabulary word, definition, colored drawing/diagram
    3. Students complete the matchbook for Monday