Maureen M. Drees

Physics Lesson Plans

April 16-20, 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 Period and Speed of Orbiting Object WS
  2. PD 1-2 pg 251 + SR 1-7 pg 253

Tuesday—

* 1. Check PD 1-2 pg 251 + SR 1-7 pg 253
  2. Torque Door Demonstration
  3. Notes over torque, put equation on back of book
  4. PE 1-3 pg 258 + PP 37 pg 265

Wednesday—shortened periods

* + 1. Check PE 1-3 pg 258 + PP 37 pg 265
    2. Notes—Simple Machines, Mechanical Advantage, Ideal Mechanical Advantage, Mechanical Efficiency, FRED mnemonic, put equations on back of book
    3. WS—Simple Machines

Thursday—

* + - 1. Check Simple Machines WS
      2. Board Problems—MA, IMA, Efficiency—must confirm to go on
      3. SR 1-7 pg 261

Friday—

* + - * 1. Check SR 1-7 pg 261
        2. Notes—Kepler’s Three Laws, put equation for Kepler’s Third Law on back of book
        3. Yellow Board Problems
        4. Chapter 8 WS 2 reviewing chapter