Maureen M. Drees

Physics Lesson Plans

October 30-November 3, 2017

Note: Tuesday Nancy Stammer will sub will Tina and I work with Corey. Wednesday is a 1:25 dismissal for professional development. Thursday is the musical matinee.

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. Hand in scored and explained Communication/Collaboration Rubric for Project Based Learning based upon Egg Drop Challenge, will use as part of grade on Bridge Building Challenge and Simple Machine Contraptions
  2. Review scalar and vector, define resultant, model, and then guided practice adding vectors graphically
  3. Graphical Addition WS (do first one together), will work on Tuesday, along with Kinematic WS, due Wednesay

Tuesday—Mrs. Stammer

* + 1. Graphical Addition WS
    2. Kinematic WS

Wednesday—shortened schedule

* + - 1. Check Graphical Addition WS
      2. Check Kinematic WS
      3. Section Review 1-5 (2-4 are graphical addition) page 85

Thursday—matinee

* + - * 1. Check SR 1-5 pg 85
        2. Journal—What are the advantages of graphical addition? Disadvantages? Why did we learn to add graphically?
        3. Discuss
        4. Introduce/Review Soh-Cah-Toa
        5. Soh-Cah-Toa WS

Friday—

Check first Soh-Cah-Toa WS

Board Problems, must confirm to go on

Second Soh-Cah-Toa WS