Maureen M. Drees

Physics Lesson Plans

October 2-6, 2017

Note: Wednesday is a 1:25 dismissal for professional development. Friday is the blood drive from 8:00 to 2:00.

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 SR 1-6 (only a on 4) pg 47
  2. Notes—Acceleration, Average Acceleration, write equations on back of book, model, guided practice, Direction and Magnitude of Acceleration, Shape and Slope of Graph (put Table 3 in notes and act out with students)
  3. PB 1-5 pg 49

Tuesday—

* + 1. Check PB 1-5 pg 49
    2. Model, guided practice—Displacement with Constant Acceleration, includes ()
    3. Put equations on back of book
    4. PC 1-3 pg 53 + PP 16-17, 19 pgs 69-70

Wednesday—shortened schedule

* + - 1. Check PC 1-3 pg 53 + PP 16-17, 19 pgs 69-70
      2. Derive Velocity with Acceleration, Displacement with Constant Acceleration Formulas
      3. Model, guided practice
      4. Put equations on back of book
      5. PD 1-4 pg 55 + PP 20-21, 23 pg 70

Thursday—

* + - * 1. Check PD 1-4 pg 55 + PP 20-21, 23 pg 70
        2. Journal—When using the kinematic equations, I need to keep in mind…
        3. Teacher-made WS (Bike #1,3,4,5) + (Bus #1,2,5)

Friday—

Check 2 WS

Journal—Places that are easy to make mistakes using kinematics are…

Note—Derive Velocity Formula (use FOIL), put formula on back of book, model use

Finish 2 WS