Maureen M. Drees

Physics Lesson Plans

November 13-17, 2017

Note: Tuesday afternoon I’ll be at the DLT meeting. Ann Zaiger is my substitute. 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 Dognapping WS
  2. Notes—Converting 360 to NSEW system and back again
  3. NSEW to 360 System WS

Tuesday—Ann

* + 1. Check NSEW to 360 System WS
    2. Board Problems, must confirm to go on
    3. Buried Treasure WS

Wednesday—shortened schedule

* + - 1. Check Buried Treasure WS
      2. Notes—Resolving a Vector, Finding a Resultant, Setting up a problem where the motion is in one dimension and then veers off to another
      3. PC 1-4 pg 94

Thursday—

* + - * 1. Check PC 1-4 pg 94
        2. Demonstration—Object Launched Horizontally with a ball, examine photo on page 96
        3. Model, guided practice—Projectiles Launched Horizontally
        4. PD 1-4 pg 99

Friday—

Check PD 1-4 pg 99

James Bond problem in notes

Notes—Objects Launched at an Angle

Objects Launched at an Angle WS