Maureen M. Drees

Physical Science Lesson Plans

April 30-May 4, 2018

Note: Wednesday is a 1:25 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. Hand in isotope diagrams
  2. Draw numbers to practice vocabulary
  3. Read 11.2 The Atom pages 287-293 and take book notes

Tuesday—

* + 1. Check 11.2 book notes
    2. Board Problems—Mass number, Atomic number, writing isotope’s names and symbols, drawing isotopes with correct number of subatomic numbers (draw #)
    3. Go Fishing
    4. Draw numbers for vocabulary

Wednesday—shortened periods

* + - 1. Examine neodymium magnets
      2. Discussion notes—Forces in Atoms

Thursday—

* + - * 1. Classify statements as being true for gravity, electromagnetic, strong, or weak forces, discuss, record
        2. Go Fish
        3. Preview Chapter 11 Test—Introduction to Atoms—for Tuesday
        4. Highlight fill-in-the-blanks
        5. Chapter 11 Vocabulary WS

Friday—

Check Chapter 11 Vocabulary WS

Complete charge, mass, location chart for subatomic particles

Practice naming isotopes

Chapter Review 1-16, 21-23 pgs 296-7