Maureen M. Drees

Chemistry Lesson Plans

November 27-December 1, 2017

Note: Wednesday is a 2:25 dismissal for professional development. Either Tuesday or Thursday Ericka Tank, former student now studying to be a doctor at the University of Iowa, will present to the chemistry classes.

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. Dancing Raisin and then Pepper and Dish Soap demo, tie into buoyancy and surface tension in notes that processed Diet Coke and Mentos lab
  2. Do before side of Anticipation Guide together
  3. Read How are Elements Organized? Pages 116-122, complete after side of Anticipation Guide and Study Guide

Tuesday—

* + 1. Mendelev Predicts comic
    2. Check Anticipation Guide and Study Guide
    3. Examine Graphic Organizer over Tour of Periodic Table together and write down how many important facts about each group students should record
    4. Read pages 124-131 Tour of the Periodic Table, fill in important facts about each group on graphic organizer

Wednesday—shortened schedule

* + - 1. 20 Facts about Periodic Table
      2. Take daily grade on 4.2 Graphic Organizer
      3. Utilize 4.2 Graphic Organizer by having students tell which group of elements is being described by each statement
      4. Draw numbers for vocabulary

Thursday—

* + - * 1. Element of the Day
        2. Complete left side of 4.3 Anticipation Guide together
        3. Read 132-141 Trends of the Periodic Table
        4. Complete study guide, right side of anticipation guide

Friday—

Element of the Day

Check 4.3 Anticipation Guide and 4.3 Study Guide

Begin to take notes over Trends of the Periodic Table using props and note taking guide