Maureen M. Drees

General Science Lesson Plans

September 11-15, 2017

Note: Wednesday is a 2:25 dismissal for professional development. Friday afternoon we will decorate halls and sprit boards for Homecoming.

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. Finish book notes together over Section 1.3—Scientific Models
  2. Purpose Question—Does the amount of slope affect how far the car rolls?
  3. Set up lab sheet using steps of scientific method
  4. In small groups, begin to carry out experiment, record results

Tuesday—

* + 1. Groups finish Amount of Slope Affects How Far the Car Rolls experiment
    2. Groups compare hypothesis and conclusion, share out
    3. As a whole class, walk through steps of scientific method, what part of car experiment fits each step

Wednesday—shortened schedule

* + - 1. Preview Chapter 1 Test—The World of Physical Science—for Tuesday
      2. Go Fish for Chapter 1 Vocabulary Words
      3. Pull numbers to practice vocabulary
      4. Chapter 1 Vocabulary WS

Thursday—

* + - * 1. Check Chapter 1 Vocabulary WS
        2. Go Fish
        3. Brainstorm models that represent things that are very big, very small
        4. Model writing a description of a model
        5. Students describe a model of something that is very big, then of something that is very small, each must contain three details

Friday—may adjust periods

Review criteria for model descriptions

Proofread model descriptions with partner, comparing to criteria

Hand in

Read and take book notes 1.4 Safety and Measurement

Examine measuring tools