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General Science 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. In small groups, classify statements as being true for mass or weight, record in discussion notes
  2. As a class, classify statements as being matter or not matter, record in discussion notes
  3. Draw numbers for vocabulary
  4. Chapter 2 Vocabulary WS

Tuesday—

* + 1. Check Chapter 2 Vocabulary WS
    2. Go Fish
    3. Popcorn Read
    4. Review mass vs. weight notes
    5. Review matter vs. not matter notes
    6. In small groups, match descriptions of physical properties with the physical properties being described, record in discussion notes

Wednesday—shortened schedule

* + - 1. Preview Chapter 2 Test—The Properties of Matter—for Tuesday
      2. Have students show how to measure volume using a graduated cylinder
      3. Model how to write descriptions about measuring volume, discuss criteria, what pages in book to use as reference
      4. Assign writing 3 descriptions about measuring volume

Thursday—

* + - * 1. Put criteria for sentences on board, edit descriptions
        2. Hand in sentences about measuring volume
        3. Go Fish
        4. Brainstorm physical changes
        5. Model how to write descriptions of physical changes, talk through criteria
        6. Assign writing 3 descriptions about physical changes

Friday—

Put criteria for descriptions on board, edit descriptions

Hand in descriptions about physical change

Draw numbers to practice vocabulary

Brainstorm chemical changes

Model how to write descriptions of chemical changes, talk through criteria

Assign writing 3 descriptions about chemical changes