Maureen M. Drees

General Science Lesson Plans

January 1-5, 2018

Note: Monday, Tuesday, and Wednesday will be winter break.

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—doesn’t meet

Tuesday—doesn’t meet

Wednesday—doesn’t meet

Thursday—

* 1. Use puzzle pieces to construct a new seating chart
  2. Revisit data sheets
  3. Will assign new science numbers and see book covers on Monday
  4. Review Newton’s 1st Law
  5. Read together pages 161-162 over Newton’s 2nd Law of Motion and take book notes
  6. Model, guided practice using F=ma equation

Friday—

* + 1. Use balloon to illustrate Newton’s 3rd Law of Motion
    2. Read pages 163-164 over Newton’s 3rd Law and take book notes
    3. Brainstorm action/reaction pairs
    4. Act out Newton’s Three Laws with objects, have students tell what law is being acted out and why