Maureen M. Drees

Physics Lesson Plans

August 21-25, 2017

Note: Monday and Tuesday will be professional development and teacher work days. Wednesday is the first day of school with a 1:25 dismissal. Thursday and Friday are regular days.

Essential concepts and skills emphasized in the week’s lessons will be highlighted.

Disciplinary Core Ideas

Life Science

From molecules to organisms: Structures and processes

Ecosystems: Interactions, energy, and dynamics

Heredity: Inheritance and variation of traits

Biological Evolution: Unity and diversity

Earth and Space Science

Earth’s place in the universe

Earth’s systems

Earth and human activity

Physical Science

Matter and its interactions

Motion and stability: Forces and interactions

Energy

Waves and their applications in technologies for information

transfer

Science and Engineering Practices

Asking questions and defining problems

Developing and using models

Planning and carrying out investigations

Analyzing and interpreting data

Using mathematics and computational thinking

Constructing explanations and designing solutions

Engaging in argument from evidence

Obtaining, evaluating, and communicating information

Cross-Cutting Concepts

Patterns

Cause and effect

Scale, proportion, and quantity

Systems and system models

Energy and matter

Structure and function

Stability and change

Monday—doesn’t meet

Tuesday—doesn’t meet

Wednesday—shortened schedule

1. Use Whatzits to establish seating chart
2. Take roll call, establish name student wants to use in class
3. Learn about siblings of students
4. Note locker numbers on class lists

Thursday—

1. Hand out books, record book numbers on class lists
2. Talk through with students what materials that will need for class, including covering book starting on Monday
3. Introduce myself to students
4. Where in the World?—have students identify where they live on copies of plat maps from Carroll, Crawford, Shelby, and Audubon counties
5. Use “Have You Ever” to build classroom community—driven a stick shift, broken a bone, taken Algebra II, baked cookies from scratch, ridden on a country bus, flown on an airplane, shown animals at the fair, visited Mt. Rushmore, driven a tractor, ridden on a subway

Friday—

1. Go over student information sheet, students complete, hand in
2. Find out what fall extracurricular activities students are involved in
3. Remind students that books will be covered in class on Monday and Tuesday and what materials they should bring, will be worth a daily grade
4. Assign students physics numbers, model assignment set up
5. Use handout to go through grade lines and grading