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General Science Lesson Plans

May 7-11, 2018

Note: Wednesday is a 2:25 dismissal for professional development.

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. Read and discuss together 17.4 Electrical Circuits
	2. Build a series circuit together, record in discussion notes
	3. Notice how the brightness of light bulbs change as more are added, record
	4. Notice what happens when a burned out bulb is added to the series circuit, record

Tuesday—

* + 1. Practice fill-in-the-blanks
		2. Review how a series circuit is built, try incorporating a door bell, discuss advantages and disadvantages
		3. Read and discuss together page 497
		4. Build a parallel circuit together, record in discussion notes
		5. Notice how the brightness of light bulbs change as more are added, record
		6. Notice what happens when a burned out bulb is added to the parallel circuit, record

Wednesday—shortened periods

* + - 1. Construct a T-chart in discussion notes, contrasting series and parallel circuits
			2. Draw numbers to practice vocabulary words
			3. Chapter 17 Vocabulary WS

Thursday—

* + - * 1. Check Chapter 17 Vocabulary WS
				2. Popcorn Read
				3. Preview Chapter 17 Test for Tuesday
				4. Review friction, conduction, and induction—classify statements
				5. Brainstorm examples of conductors and insulators
				6. Practice fill-in-the-blanks

Friday—

Go Fish

Practice fill-in-the-blanks

Practice classifying ways of charging particles

Rebuild series circuit

Students draw circuit—a battery, a bell, 3 lights, a switch, labeled and neat, wiring path, 4 facts