



Science Study Guide: Electricity

Students have been learning about electricity. In this upcoming test, students will be asked knowledge and understanding questions about electricity. Below is a list of the lessons and vocabulary that students should know, as well as the student resources/readings that have been given out in these lessons. Students may have to apply their knowledge and understanding to answer application questions.

Lesson 1: Understanding Energy

- Define words: electricity, atom, protons, neutrons, electrons, and nucleus
 - Explain how electricity is generated
 - Label a diagram of an atom
- ❖ *Readings or student resources to review: Electricity and Atoms, Electricity Videos on Weebly*

Lesson 2: Static and Current Electricity

- Define words: static electricity, current electricity, electrostatic phenomenon
 - Explain the electrostatic phenomenon and how static electricity works (e.g., in-class experiment with static electricity – balloon “sticking” to tissue paper)
 - Know the difference between static and current electricity
- ❖ *Readings or student resources to review: Static and Current Electricity, Static Electricity, Electrostatic Phenomenon, Current Electricity, Interactive Computer Program on Weebly*

Lesson 3: Conductors and Insulators

- Define words: conductor, insulator
 - Give examples of, or identify different materials that are conductors and insulators of electricity
 - Explain how a conductor or insulator works
- ❖ *Readings or student resources to review: Conductors and Insulators,*

Lesson 4: Series and Parallel Circuits

- Define: series circuit, parallel circuit, open circuit, closed circuit, battery, light bulb/load, switch,
 - Explain briefly how each type of these circuits work
 - Identify all of the parts of a series and parallel circuit
 - Explain advantages and disadvantages of both types of circuits
- ❖ *Readings or student resources to review: Parts of a Circuit, Electrical Circuit, Creating a Simple Circuit, Creating a Series Circuit, Creating a Parallel Circuit*

REMEMBER TO PLAN YOUR STUDY SESSIONS AND ASK QUESTIONS THAT YOU MAY HAVE PRIOR TO THE TEST!

TEST DATE: _____

Definitions:

Word	Definition	Example (where it applies)
Electricity		
Atom		
Electron		
Proton		
Neutron		
Static Electricity		
Current Electricity		
Electrostatic Phenomena		

Conductor		
Insulator		
Series Circuit		
Parallel Circuit		
Open Circuit		
Closed Circuit		
Battery		
Load		
Switch		