

8th Grade Study Guide

Chapter 7

Electricity

ELECTRIC CHARGE Section 1

- Compare and contrast the characteristics of positive and negative charges.
- Describe static electricity.
- Explain the law of conservation of charge.
- Compare and contrast conductors and insulators.
- Compare and contrast charging contact with charging by induction.
- Diagram the processes that result in lightning and thunder.
- Define grounding.
- Show how an electroscope works.

ELECTRIC CURRENT Section 2

- Define and be able to identify an electric current.
- Create an electric circuit.
- Describe voltage and its purpose.
- Identify the three types of batteries.
- Describe resistance, how it is measured and the factors effecting it.
- Calculate current, voltage, or resistance using Ohm's law.

ELECTRICAL ENERGY Section 3

- Compare and contrast series and parallel circuits.
- Define open circuit.
- Identify the purpose of a fuse and a circuit breaker.
- Calculate electric power and electrical energy.

