

Unit 3

Communication Electronics

Lesson 3.3

Prepared By Steve Lalonde, WA7WKX

Lesson Title Basic Electrical Theory – Voltage & Current

Curriculum Area Science, Language Arts - Writing

Grades 6 – 8

Duration 2 class periods

Content Standard SC – 4,
WR - 1

Benchmarks SC – 4.1
SC – 4.2
WR – 1.2

Goals

- Develop the students' understanding of basic electrical theory
- Develop the students' understanding of the relationship between magnetism, voltage and current

Objectives

- Students describe the flow of electrons in a conductor
- Students describe the effects of voltage on current

Resource Materials

Now You're Talking, Chapter 5

Understanding Basic Electronics, Chapter 10

Instructional Content

Current flow in a conductor

Voltage and its effect on current flow

Suggested Activities

1. Students write a paragraph describing how current flows through a conductor.
2. Students write a paragraph describing what effect voltage has on current flow in a conductor.