

# Unit 4

## Transmitters And Receiving Devices

### Lesson #4.3

**Prepared By** Charles Lowery, NM4V  
**Lesson Title** How Receivers Work

**Curriculum Area** Technology

**Grades** 6 – 8

**Duration** 1 to 2 class periods

**Content Standard** T – 1

**Benchmark** T – 1.1

#### Goal

- Develop student understanding of the basic operation of a simple receiver

#### Objectives

- Students will be able to describe the operation of a radio receiver
- Students will be able to describe, sensitivity, selectivity and stability

#### Resource Materials

*Now You're Talking*

[www.howstuffworks.com/radio2.htm](http://www.howstuffworks.com/radio2.htm)

[www.howstuffworks.com/radio5.htm](http://www.howstuffworks.com/radio5.htm)

[www.midnightscience.com/project.htm](http://www.midnightscience.com/project.htm)

#### Instructional Content

##### How Receivers Work

Sensitivity

Selectivity

Stability

Filters

Station Accessories

Antenna Switch

Antenna Tuner

WSR Meters

Morse Code Key/Keyrer

Microphone

#### Suggested Activities

Build a crystal radio set