

Unit 4

Transmitting And Receiving Devices

Lesson #4.2

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Lesson Title How Transmitters Work

Curriculum Area Technology, Language Arts

Grades 6 – 8

Duration 1 class period

Content Standard T – 1, WR - 1

Benchmark T – 1.1, WR – 1.1, 1.2

Goal

- Develop student understanding of the basic operation of a radio transmitter

Objective

- Students will be able to draw a block diagram of a simple CW transmitter
- Students will be able to describe the operation of a simple CW transmitter
- Students will be able to describe the operation of CW, SSB and FM transmitters

Resource Materials

Now You're Talking

www.howstuffworks.com/radio4.htm

Instructional Content

1. How Transmitters Work
 - CW transmitters
 - SSB transmitters
 - FM transmitters
2. Block diagram of a typical radio station

Suggested Activities

1. Draw a block diagram of a VFO controlled CW transmitter
2. Write a paragraph explaining the basic operation of the CW, SSB and FM transmitters