Unit 4 Transmitting and Receiving Devices Lesson 4.1

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Lesson Title Station Components and Layout

Curriculum Areas Technology

Grades 6-8

Duration 1 class period

Content Standard T-1

Benchmark T-1.1

Goal

• Develop students knowledge of the components of a basic Amateur Radio station

Objective

• Students will identify and assemble a mockup Amateur Radio station

Resource Materials

Now You're Talking

Instructional Content

- 1. Block diagrams and how to use them
- 2. Components that make up a typical HF Amateur Radio station
- 3. Components that make up a typical VHF/UHF Amateur Radio station

Transmitter Power Supply
Receiver Antenna Switch
Transceiver SWR / Power Meter
Antenna Transmission/Feed Line

TNC Modem

Antenna Tuner

Suggested Activities

Activity Sheet # 4.1 – Station Layout

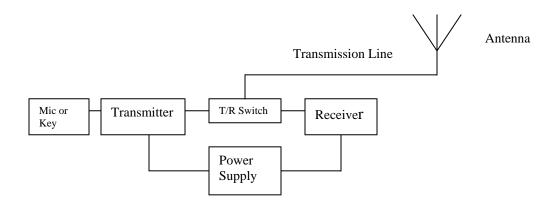
Unit 4 Activity Sheet 4-1 Station Layout

Instructions:

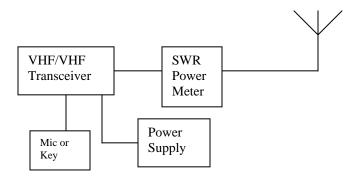
- 1. Cut out rectangles for each of the radio station components listed.
- 2. Label each rectangle with the correct name.
- 3. Glue or tape them in the proper position on a separate piece of paper.
- 4. Draw lines to connect the components use a piece of string to pepresent the transmission line and antenna.

Materials: Scissors, string, tape or glue

Example: Basic HF Amateur Radio Station.



Example: Basic UHF/VHF Amateur Radio Station.



Cut out the rectangles and label them: Transmitter, Receiver, Transceiver, Mic/Key, SWR/Power Meter, Transmatch, Power Supply

