2010 National Scout Jamboree

Radio Merit Badge

Earn the badge while you are here, about 5 hours.

Each session begins on the hour.

Session 1 Midway Radio MB booth side A ____

Session 2 Midway Radio MB booth side B ____

Session 3a K2BSA Station (Mahone area) req 7, 8 + Amateur Radio option ____

Session 3b Midway Radio MB booth req 7, 8 + Broadcast Radio option ____

Session 3c Midway Radio MB booth req 7, 8 + Shortwave Listening option ____

Name: First_____ Last _____

Jamboree ID number (Off your badge) _____

Jamboree Troop Number _____ Home Troop Number _____

Home address: number & street _____

City: _____State: ____ zip code: _____

SESSION 2 WORKBOOK

Requirement	Date	Initial	Requirement	Date	Initial
4. Radio waves carry info	_____	/ _____	5c. Open/Closed/Short	_____	/ _____
5a. Block diagram/schematic	_____	/ _____	5d. Schematic symbols	_____	/ _____
5b. Block diagram	_____	/ _____	6. Safety precautions	_____	/ _____

4. Explain how radio waves carry information. _____

_____

_____

_____

Include in your explanation: transceiver, _____

_____

transmitter, _____

_____

receiver,_____

_____

amplifier, _____

_____

and antenna. _____

_____

5. Do the following:

   a. Explain the differences between a block diagram _____

   _____

   _____

   and a schematic diagram. _____

   _____

   _____

   b. Draw a block diagram for a radio station that includes a transceiver, amplifier, microphone, antenna, and feed line.

c. Explain the differences between an open circuit, _____

_____

_____

a closed circuit, _____

_____

_____

and a short circuit. _____

_____

_____

d. Draw eight schematic symbols. *(See the graph paper below.)*

Explain what three of the represented parts do.

_____

_____

_____

Find three electrical components to match to three of these symbols.

_____

_____

_____

6. Explain the safety precautions for working with radio gear, _____

_____

_____

_____

including the concept of grounding for direct current circuits, _____

_____

_____

power outlets, _____

_____

_____

and antenna systems. _____

_____

_____