

COMMUNICATOR ACTIVITY BADGE – SCOUTS

GREENOCK AND DISTRICT SCOUTS AMATEUR RADIO CLUB



WORKBOOK

Name _____ Group _____

PREFACE

This workbook has been created and provided as a resource for the Scout Communicator Activity Badge by the **Greenock and District Scouts Amateur Radio Club.**

The Club meets most Fridays at 7.00 p.m. during term time in the Radio Shack at Greenock and District Scout Headquarters, Finnart Street, Greenock, Inverclyde.

We welcome visitors to the Club Radio Shack.

Should you or your Group wish to visit, please make arrangements through your Leader.

We can be contacted by email at: mm0tsg@gmail.com

Scan with your mobile phone to visit our website.

<https://mm0tsg.org>





Communicator Activity Badge

In Order to achieve this badge with the help of the Radio Club you should undertake the following.

Radio communication

1. Complete the following three tasks:
 - a. Log 25 different amateur radio stations, showing date, time, call sign, frequency, readability and location. Some broadcast stations may be included.
 - b. Demonstrate how to tune a simple communications receiver.
 - c. Give an example of a typical greetings message.
2. Explain in simple terms how radio waves travel around the world. Know the more commonly used HF and VHF amateur radio frequency bands.
3. Complete the following two tasks:
 - a. Know the phonetic alphabet and define at least eight international Q code signals.
 - b. Demonstrate your ability to recognise call signs from the UK and near continent.
4. Visit an amateur radio station.
5. Understand the regulations governing the use of amateur radio equipment.

Notes

A Scout who holds or gains the Radio Amateur Licence (Foundation, Intermediate or Full) or the Marine Radio Operator's Certificate of Competence and Authority to Operate or the Flight Radio Telephone Operator's Licence automatically qualifies for this Badge

Please retain this Activity **Record Booklet** as verification of your achievement. *Tasks can be completed over several weeks.*

When completed and signed this booklet shows that you have done all of the work necessary for the Communicator Activity Badge

Individual record of work

Task Number	Task	Where undertaken	Signature
1a	Log 25 Amateur Radio Stations	Radio Club	
1b	Tune a simple communications receiver	Radio Club	
1c	Give an example of a typical greeting message	Radio Club	
2	Explain in simple radio terms how radio waves travel around the world and know the more commonly used HF and VHF amateur radio frequency bands.	Radio Club or your Scout Meeting Place	
3a	Know the phonetic alphabet and define at least eight international Q code signals.	Scout Meeting Place	
3b	Identify call signs from the UK and Europe	Scout Meeting Place	
4	Visit an Amateur Radio Station	Radio Club	
5	Understand the regulations governing the use of amateur radio equipment	Preparatory work @ Scout Meeting Place, completion @ Radio Club	

- Task 1b Tune a Simple Communications Receiver

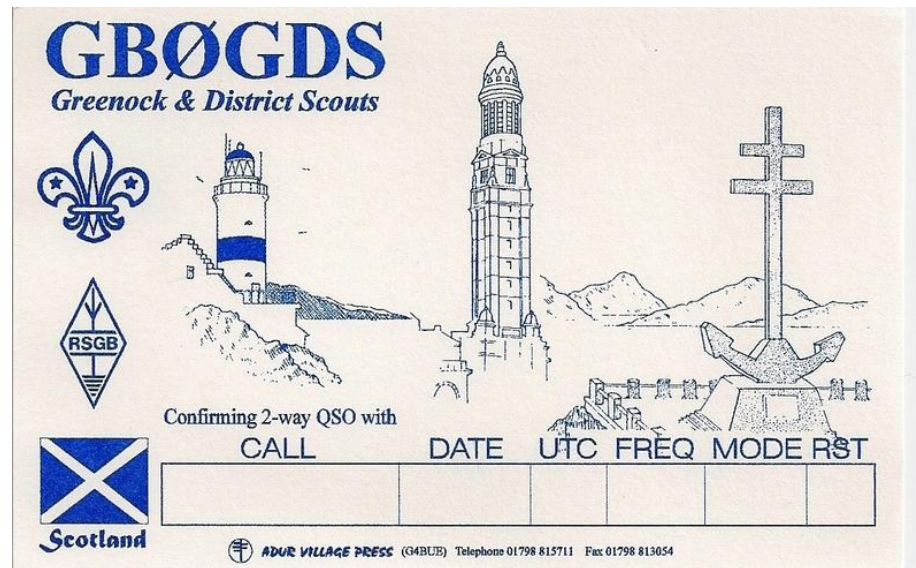


This can be achieved during an event e.g. Jamboree on the Air (JOTA) or a visit to the radio club

Verified By: _____ Date _____

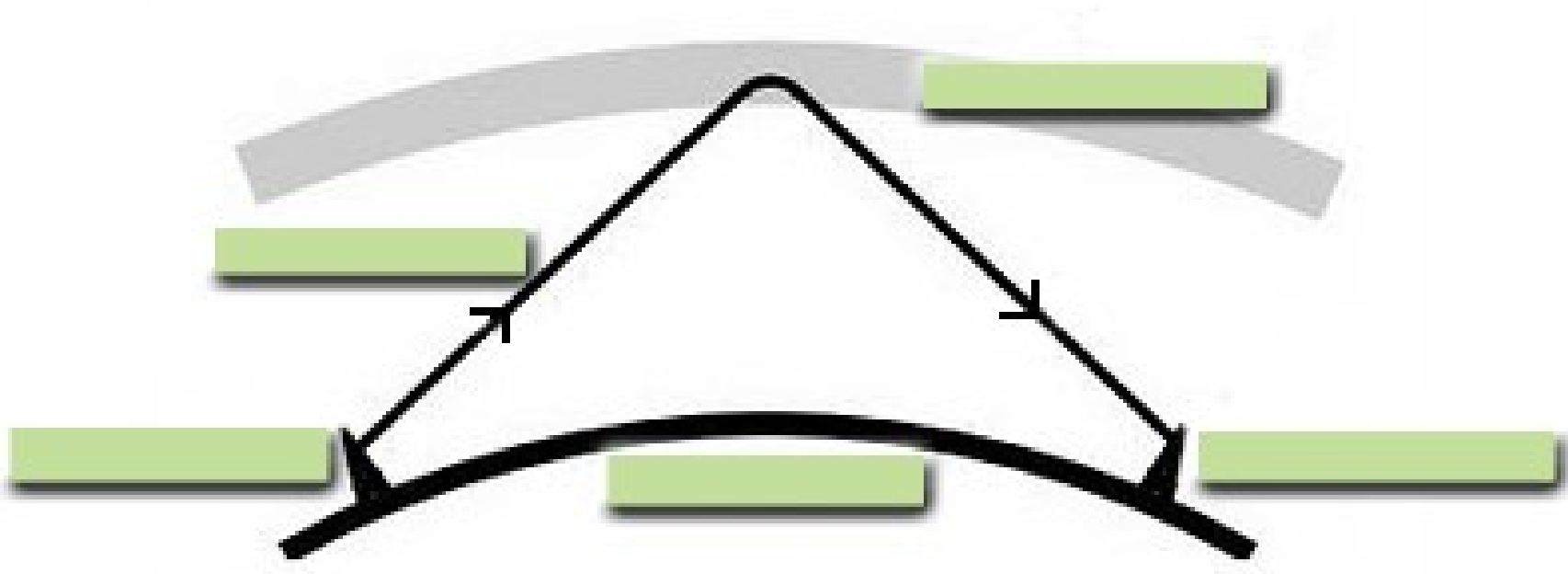
- **Task 1c Give an example of a typical greetings message.**

Listen in to some of the amateur operators when you are completing task 1a and find out how they greet each other, then write your own greetings message here:



Verified By: _____ Date _____

- **Task 2 Explain in simple terms how radio waves travel around the world.**
Read the handout and then label this drawing showing how the waves travel.



Verified By: _____ Date _____

- Task 2 continued List commonly used HF and VHF Amateur frequency bands used.

HF FREQUENCY BANDS

1. _____
2. _____
3. _____
4. _____



VHF FREQUENCY BANDS

1. _____
2. _____

Verified By: _____ Date _____

- **Task 3a Know the phonetic alphabet**

Read the handout then complete the following in the phonetic alphabet:

Write your first name below (e.g. **Anne** - **A**lpha **N**ovember **N**ovember **E**cho / **Ian** - **I**ndia **A**lpha **N**ovember)

Write the meaning of each of the following Q codes.

QTH	
QRZ	
QRM	
QSY	
QSO	
QSL	
QRP	
QRO	



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Verified By: _____ Date _____

- **Task 3b Identify call signs from the UK and Europe**

Amateur Radio Operators each have a unique call sign the first part of which identifies the country from which they are operating.

Use the handout to help you complete the table.

Prefix	Country	Prefix	Country
G		EA	
GW		ON	
GM		OZ	
GI		LA	
GJ		PA	
F		CT	
EI		I	

Verified By: _____ Date _____

- Task 4 Visit an Amateur Radio Station

**Greenock and District Scouts
Amateur Radio Club**

MMOTSG



Certify that

Visited our station on

Station Operator's Signature



- **Task 5 Understand the regulations governing the use of amateur radio equipment**

For this task you will need the help of one of the club members or the handout.

Although it is a hobby there are laws around the world which make it safe for everyone and ensures that the equipment works properly, does not interfere with other things e.g. television and that the operators are qualified.

Complete the following by filling in the blank spaces:

The organisation which governs the use of amateur radio equipment in the UK is called _____

Among other things it is responsible for issuing the _____ which all operators must have.

The licence comes with a unique number known as a _____ which helps identify every amateur radio station in the world.

Our radio club has been issued with _____

All licensed radio amateurs have passed an _____ which in the UK is set by the _____

There are three levels, 1 _____, 2 Intermediate and 3 _____

As you will see from Task 2, amateur radio operators are restricted to particular _____

If an operator does not obey these rules then his or her station may be _____ by Ofcom.

Verified By: _____ Date _____

Jamboree on the Air (JOTA)

Jamboree on the Air (JOTA) takes place on the third full weekend in October. If you would like to visit the Scouts Amateur Radio Station during this time, please speak to your Scout Leader who will be able to arrange a visit for you either on your own or as part of a group.

HOPE TO SEE YOU THERE

73, from the radio operators of MMOTSC

