### LO

- 1. How to write code to solve problems
- 2. How spies communicated during World War 2

During the war, Britain used spies to get important information about other countries. Your challenge to help our Spy to get an important message back to Britain.

### **Morse Code**

Messages were changed into Morse code so they can be sent a long way. Morse code uses dots "." and dashes "-".

Our spy wants to send

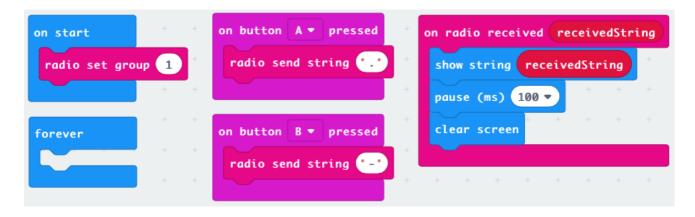
.- - - .- -.-. -.- ----. .- --

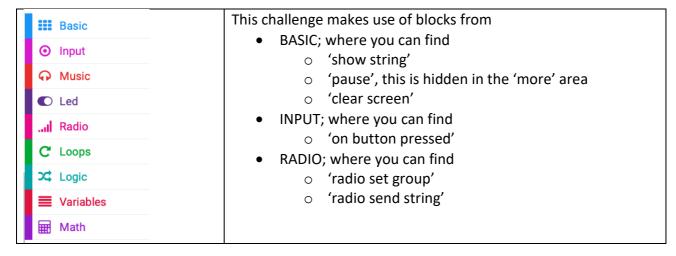
#### Radio

Morse code messages were sent by radio (they didn't have mobile phones)

### Steps to follow for your spy radio

- 1. Use micro:bit editor and to follow the 'micro chat' example
- 2. Change it a little so it looks like the picture below
- 3. Now you can press A for a ".", press B for a "-", and both together to clear the screen.
- 4. Try it out with another group
- 5. What happens if you change the radio group number to 2?





### SPY

A spy must first code the message they need to send into Morse Code.

- Use the boxes below and the Morse Code Sheet to write your Morse code message.
- Here's how to do it:

Letter	Н	E	L	P				
Morse	• • •	٠	. =					
Your message (	no more than 15	letters):						
Letter								
Code								
Letter								
Code								
	1	T	T	T	T			
Letter								
Code								
Questions:  Did you find it easy to write your message?								
What do you think makes a good spy?								
•••••	•••••		••••••		••••••			
All countries know Morse code. How could a spy stop everyone reading the message?								

# **Listening Station**

At a listening station in the war, a radio operator would listen to the Morse code and write them down on sheets of paper to be decoded.

Code									
Letter									
Code									
Letter									
Code									
Letter									
Questions:  Is it easily being a radio operator?									
What can be the problem?									
What do you think made someone good at the job?									

## MORSE CODE

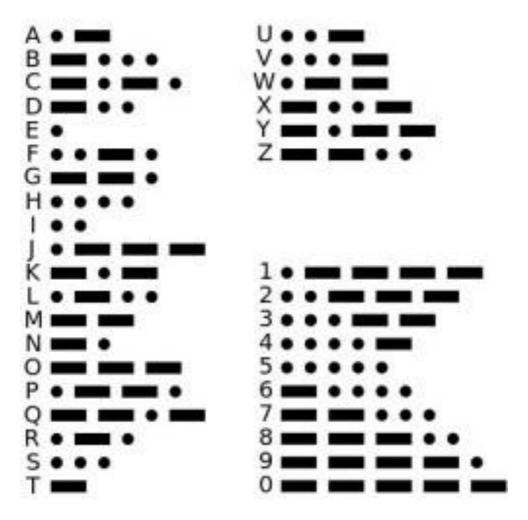
This code was used in the war to send messages by radio or flashing lights.

A 'dot' is a short 1 second beep on a radio

A 'dash' is a long 2 second beep on a radio

After each sending all the dots and dashes for a letter you leave a 4 second gap

• This is so anyone listening knows that was the end of a letter or the message



### **Questions:**

Can you make your name in Morse code?	
Can you make your find the Morse code number for your age?	