Code breaking

Secret Code Wheels

Send secret codes to your friends and families using our secret code wheel.

There are two ways to use these wheels:

- You can either use the alphabet code wheel provided
- You can come up with your own code language. You could use different shapes or symbols or try putting the letters of the alphabet in a totally different order!

You will need:

- Small circle and large circle templates
- Scissors
- Split pin

Firstly, cut out the large circle (the alphabet one) and a small template (which will be the code language). You can even make up your own code language using the blank small circles. You would try letters in a different order, numbers or symbols.

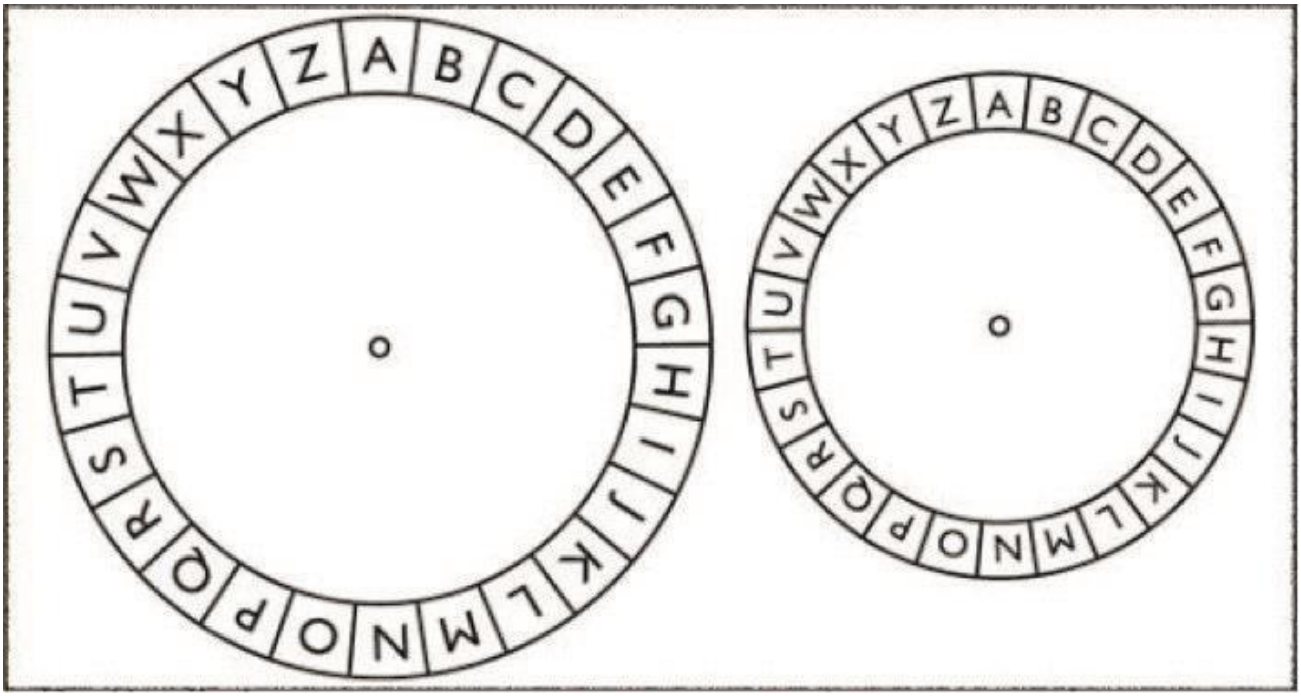
Put them together and connect with a split pin through the centre.

Now - you just need a friend to send secret codes with.

To start your coded sentence, first decide which letter to line up with which code symbol. Here is an example:

To solve my code line up the big A with the little V. Find the letters below on the small circle, and the decoded letter will be on the outside circle.

D GJQZ OCZ YDNXJQZMT HPNZPH

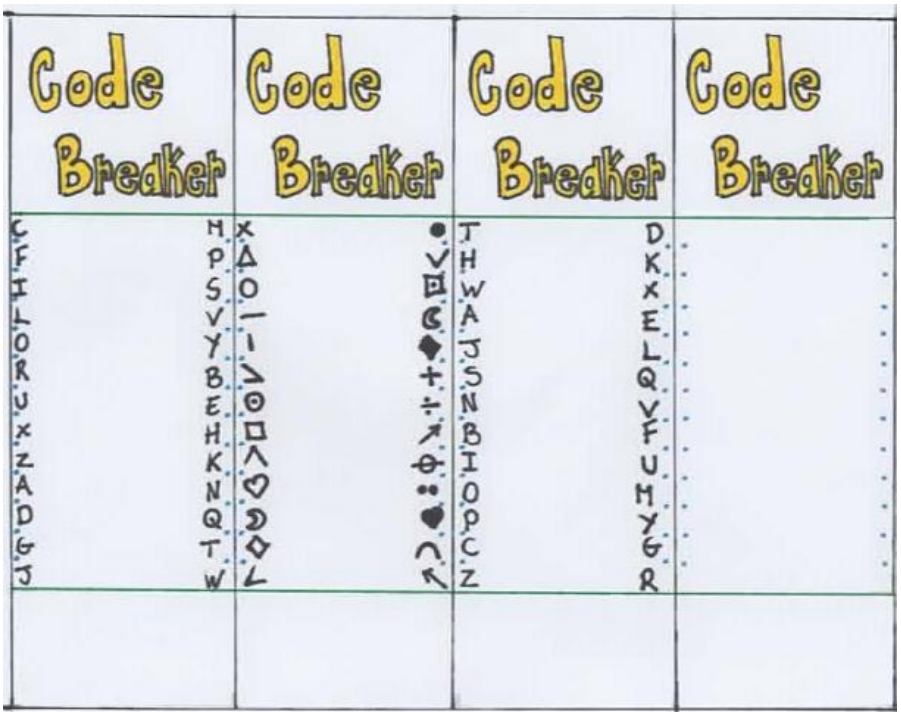

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Code Breakers

You could also have a go at using our Code Makers and Breaker. Watch our video to find out how: https://bit.ly/2XzfFuH

You will need:

- X2 Code Makers and at least one Code Breaker. Why not try several different codes!
- Scissors



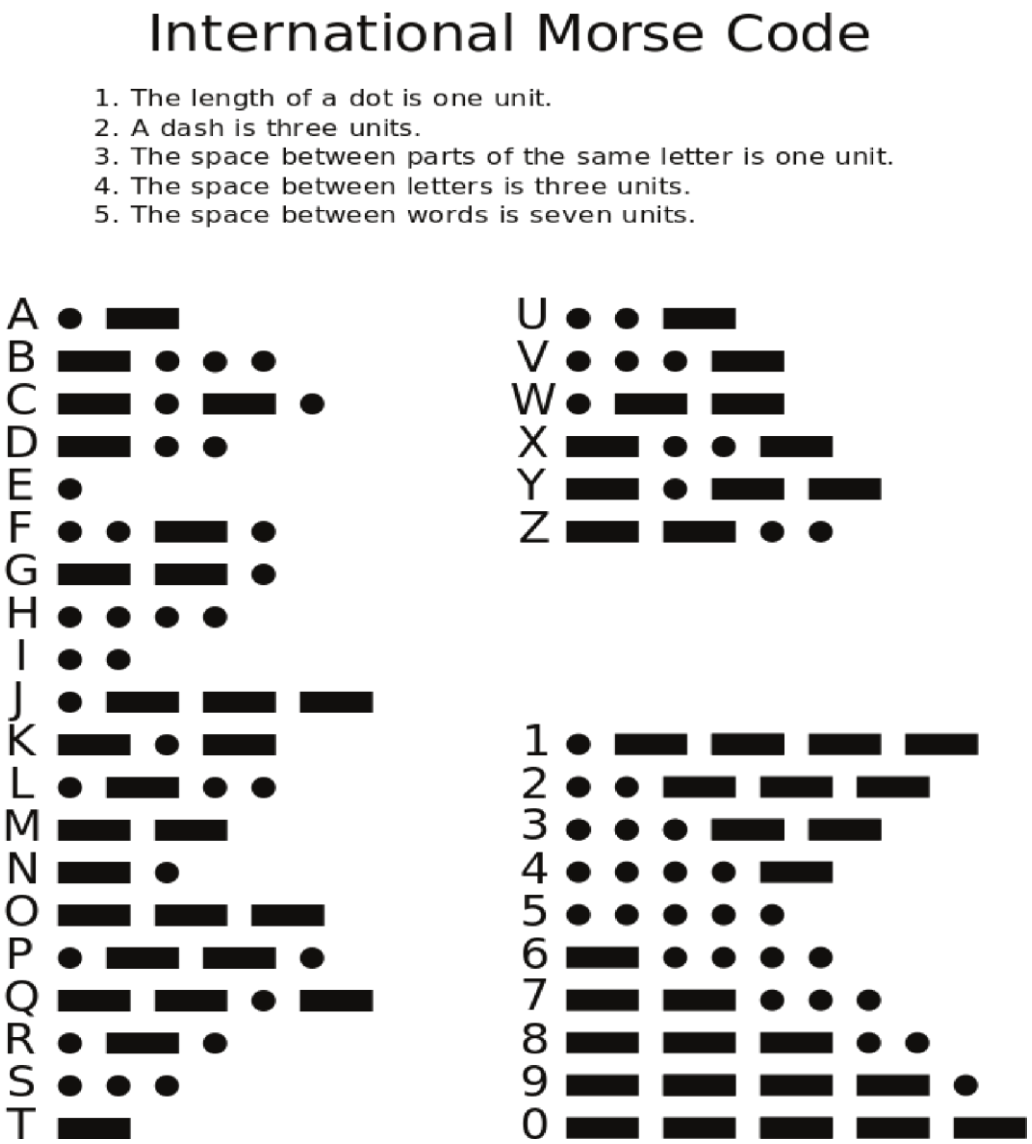
Morse Code

Morse is a type of code that uses the dots and dashes to represent the different letters of the alphabet. The message is usually sent in light or sound.

Dots are short flashes of light or sound and dashes are longer flashes of light or longer bursts of sound. To understand a Morse code message, you need to know the combination of dots and dashes for each letter of the alphabet.

Below is the Morse code alphabet.

When you write words in Morse code make sure to keep a gap between each letter.



Using the code can you write your name:

Can you work out what the words below are?

● ● ● ● ● ● - ● ● ● - ● ● - - -

- ● ● ● ● ● ● ● - ● - ● - - - ● ● ● - ● ● - ● - ● -

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Why not send codes to your friend or family members?
See if they can work out what you are saying.

Secret Code Bracelets

You need:

- A word in Morse code
- Different colour beads
  (you could use painted pasta or try making beads out of paper!)
- String

Pick a word and write it down in Morse code. It can be any word you like, maybe a name. Then you need three colours of bead, one will be dots, one will be dashes and one is the space between words. Make sure to decide which colour is which.

Start threading the beads onto the string, just make sure to do this in the correct order, so that you have the right colour for the dots, dashes, or spaces. It might then help to lay your beads out in the order you will thread them onto the string.