

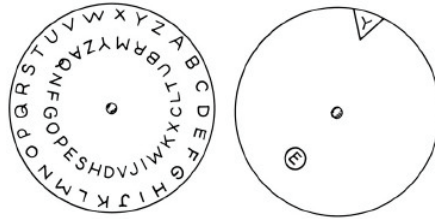
Make your own code wheel

Aims: You and your partner will need to each make an identical wheel so that you can both understand each other's messages!

You will need:

- A sheet of card
- Compass to draw circles
- Scissors
- Two paper fasteners
- Protractor to mark off degrees
- Pencil

What you will make:



Instructions

You and your partner will need to each make an identical wheel so that you can both understand each others messages!

1. Use the compass to draw two circles. One circle with a diameter of 10cm inches and one with a diameter of 15cm.
2. Cut out circles and fasten them together at their centers with paper fasteners.
3. Mark off 26 sections around the outside of both the circles. Use a protractor, each section will be approximately 14 degrees.
 1. Write the alphabet in the spaces on the inner circle.
 2. Write your code symbols on the spaces on the outer circle. Make sure your wheel is identical to your partners or it won't work!
 3. Set one letter and symbol to be the 'home space' so you might want to agree that the letter A is always shown by a symbol of a house and line them up on your wheel.
4. Sit on the other side of the room from your partner.
5. Write a message using ordinary letters.
6. Encrypt it using your code wheel!
7. Send your message to your partner and wait for your reply!