

SEMAPHORE COMMUNICATIONS

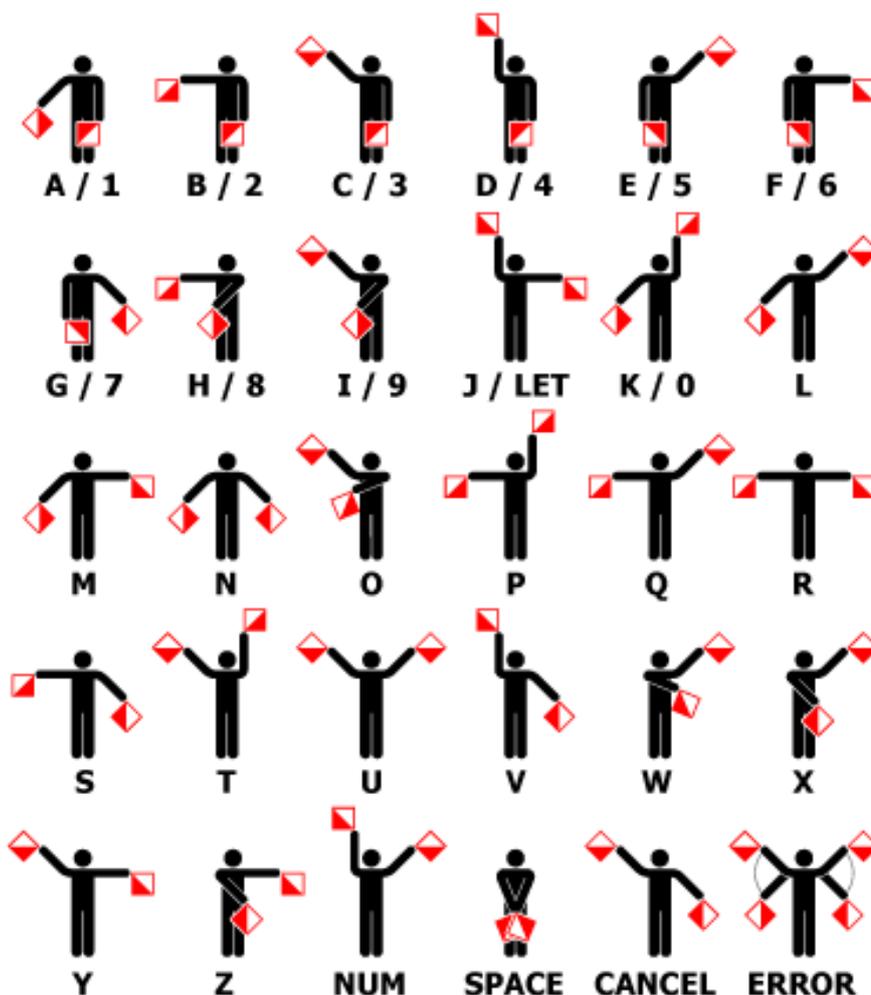
Make your own semaphore flags

What you need:	How to make:
2 x white A4 paper/card	1. Using the ruler and pencil draw a large square on your paper. It should fill most of the page.
2 x large straws or sticks	2. Use the ruler to draw a line across the square from corner to corner. This makes two triangles.
Ruler	3. Colour the top triangle red
Pencil	4. Colour the bottom triangle yellow
Red and yellow colouring pencils/pens	5. Repeat for your second piece of paper
Scissors	6. Cut out your squares
Tape	7. Use the tape to attach each to a straw/stick.

What to do: You need a copy of the semaphore alphabet – there is one behind me, attached to this guide, (or have a quick google). Make sure your signalling partner has one too so they can work out what you are saying. When you signal each letter, they need to write down which letter it is. Keep going and spell out your message! Then switch over.

Have a practice!

1. Hello
2. How are you
3. Your name



STRING AND CUP TELEPHONE

Make your own phone:

What you need:	How to make:
2 x paper or plastic cups Sharp pencil Scissors Tape String Tape measure	<ol style="list-style-type: none">1. Cut a long piece of string. You can experiment with different lengths but start with 2m.2. Poke a small hole in the bottom of each cup with the sharp pencil.3. Thread the string through each cup and tie knots at each end to stop it pulling through the cup (alternatively you can use a paper clip to hold the string in place and tape it down.)4. Optional: decorate your cup with stickers or patterns.
<u>Optional</u> 2x paperclips Stickers/ pens to decorate your cups	Your string and cup telephone is ready to go!

What to do:

1. Move into position with you and a friend holding the cups at a distance.
2. Make sure the string is tight
3. Make sure the string isn't touching anything else.
4. One person talks quietly into their cup while the other puts their cup to their ear to listen. Can you hear each other?

If you have the space, try longer lengths of string but makes sure it is tight. Make sure you talk quietly, and your partner can cover one of their ears to make sure they are hearing you through their cup!

What's happening?

When you speak into the cup you are creating sound waves. These turn into vibrations at the bottom of the cup. The vibrations travel along the string. When they reach the air in your partner's cup, they turn back into sound waves so your partner can hear what you are saying.

Sound travels through air but travels better through solids like your cup and the string. This means you can hear sounds that might be too far away when travelling through air.

Bonus:

Stop and go sign: draw and colour one side of your paper for stop and the other side for go – traditionally its red for stop and green for go. Get creative!

Bonus game:

Aircraft handling signals (costume and props encouraged)

Person A = aircraft handler

Person B = the aeroplane

Aircraft handling signals – use batons, flags or your hands to help your aeroplane partner to taxi into position and take off!

