

Making a Anemometer (Wind speed measurer)

- You will need :
- An empty 2 litre plastic bottle
 - Sticky tape
 - Two pieces of balsa wood, 30 cms long and 2 cms wide.
 - 4 plastic cups
 - 1 nail
 - PVA glue and paint
 - Water (Though you can use sand or gravel.)

- Equipment needed :
- A 30cm ruler
 - A hammer
 - A paintbrush

Instructions :

- 1) Take the lid off the bottle.
- 2) Paint one of the plastic cups with the paint. Mixing in PVA will help the paint adhere to the plastic cup, and make it more waterproof, when used outside.
- 3) Measure 14cm from each end of the pieces of wood, and draw a line.
- 4) Lay the two pieces of wood over each other and fix at right angles, and either glue or tape.
- 5) Attach the three cups on the ends of the pieces of wood, the same way round.
- 6) Hammer the nail in the centre of the cross of pieces of wood, through the bottle top. **(Care needs to be taken when hammering. A vice or plasticine could be used to hold the lid)**
- 7) Pushing up and down the lid until it easily twists around.
- 8) Fill up the bottle with either sand, gravel or water, to give it weight.
- 9) Put the lid back on the bottle.
- 10) Attach the painted cup to the last end of the pieces of wood.
- 11) Place the cross of cups back in lid of bottle.
- 12) To measure, count how many times the painted cup spins past a point in 30 seconds.

