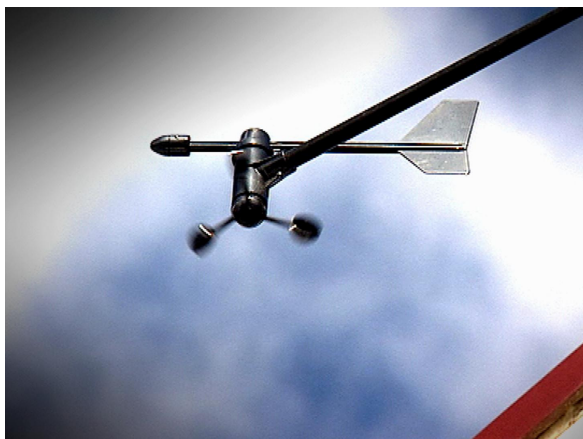


## Anemometer

On SCOPE's How Things Work episode, Braeden made his very own cup anemometer to measure wind velocity!



### What you need:

- 4 paper cups
- Cardboard
- Scissors
- Ruler
- Stapler
- Modelling clay
- Thumb tack
- Permanent marker
- Pencil with an eraser
- Water or timer

### What to do:

1. Colour in one of the four cups. This will ensure it stands out from the other cups when they are all spinning around.
2. Cut up the cardboard into 2 identical strips about 30cm x 8cm.
3. Staple them into a cross shape.
4. Attach the cups to the two ends of each cardboard strip.
5. Push the thumbtack through the centre of the cross into the pencils eraser. Make sure the cross is evenly balanced and can spin freely.
6. Find a place outside to place the anemometer and use the modelling clay to secure it in place.
7. Using a watch or timer, count the number of times that the coloured cup spins around in a minute. This will give you the wind speed in spins, or revolutions, per minute!



**What's happening:**

As the wind blows past the anemometer, it pushes against the cups, causing them to spin around the pencil. By measuring how long it takes for the cups to make a full revolution, you can figure out how fast the wind is blowing.

Place your anemometer in different areas around your house and you'll be able to find out the windiest parts of your home are and when the windiest part of the day are!

