

# Discovering Wind Speed

from Fort Whyte Alive

## Feel the breeze

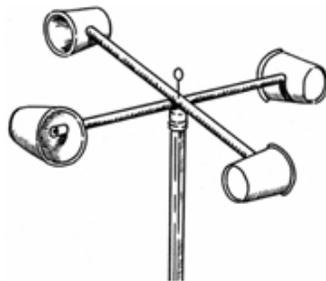
Wind speed is just one measurement that meteorologists use to gather data about the environment around them.



Use this chart to estimate the wind speed where you are, or follow the instructions below to build your own anemometer

## What you need

- 4 paper cups of equal size and shape (rotating cups)
- 1 piece of wood, 15 cm square (or 6 inches) (base of instrument)
- 1 12" long large dowel rod
- Two wooden 12" rulers (with a hole in the center), or 12" strips of wood and drill a hole in the center of each (arms of instrument)
- Glue
- 2 nails
- 1 washer
- 8 thumb tacks
- Tape
- Hammer
- Red marker or red paint
- Stopwatch or clock with a seconds hand



## Instructions

Download the full instructions below, and get building!

[Handmade Anemometer Instructions](#)

Send photos of your completed anemometer to Green Action Centre to be entered to win a prize!

## The Beaufort Scale



Method of Estimating Wind Velocity

Beaufort Number	Wind Speed (km/h)	Seaman's Term		Effects on Land
0	>2	Calm		Calm; smoke rises vertically.
1	2-5	Light air		Direction of wind shown by smoke; wind vanes do not move.
2	6-11	Light breeze		Wind felt on face; leaves rustle; vanes moved by wind.
3	12-19	Gentle breeze		Leaves and small twigs in constant motion; wind extends light flag.
4	20-29	Moderate breeze		Raises dust, leaves, and loose paper; small branches move.
5	30-38	Fresh breeze		Small trees begin to sway.
6	39-49	Strong breeze		Large tree branches in motion; whistling heard in wires; umbrellas used with difficulty.
7	50-60	Moderate gale		Whole trees in motion; resistance felt walking against the wind.
8	61-73	Fresh gale		Twigs and small branches broken off trees; impedes walking.
9	74-86	High wind/gale		Slight structural damage occurs; slate blown from roofs.
10	87-100	Storm		Trees uprooted; considerable structural damage occurs.
11	101-115	Violent storm		Widespread damage.
12	116-131	Hurricane force		Violence and destruction.

Image source: [www.ikointl.com/blog/what-beaufort-scale](http://www.ikointl.com/blog/what-beaufort-scale)