

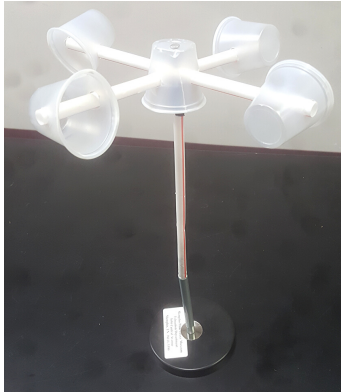


ANEMOMETER

Create your own anemometer to measure wind speed.

Materials

- 5 paper or plastic cups
- Heavy bottle
- 3 straws
- Paperclip
- Tape



Procedure

- Create four holes directly across from each other through one cup, towards the bottom. One pair across from each other should be lower than the other pair.
- Push two straws through and across the cup, so that they stick out evenly.
- Create two holes directly across from each other beneath the rims of the other four cups. Mount them on the ends of the straws, turned so that the mouths face the same way.
- Balance the intersection of the two straws on the top of the last straw. Straighten the paperclip out and push it down through the bottom of the middle cup, through the intersection of the two straws, and into the opening of the vertical straw to connect them.
- Put the vertical straw into the bottle so that the whole structure is held upright.
- Place the anemometer outside, high up with nothing obstructing the flow of wind.

Results

When the wind blows, it will spin the cups around. The faster the wind is blowing, the faster they will spin. All wind speed measurements will have to be rough estimations based on how fast you see the cups spinning.

Why?

Wind speed tells us how fast other elements of weather, like precipitation, air pressure, and temperature, are moving into the area. Knowing how fast the wind is moving will help you forecast how soon the weather might change.