EXPERIMENT 2

ANEMOMETER

Let’s measure wind speed!

2 - ANEMOMETER

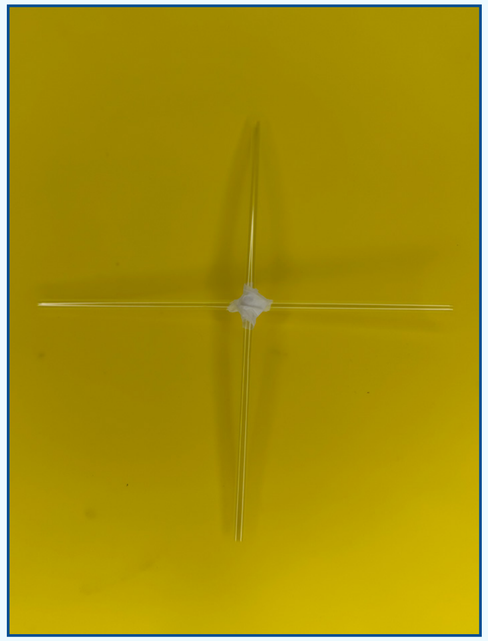
SUPPLIES NEEDED

- Craft Mat
- Scissors
- Crayons
- Tape
- 4 Small Cups (with blue tape)
- 1 Wooden Rod
- 1 Wrapped Blue Straw
- 2 Clear Straws
- Timer
- Binder Clip

2 - ANEMOMETER

STEP 1

Place straws in a cross shape (like a +) and tape them in the middle.

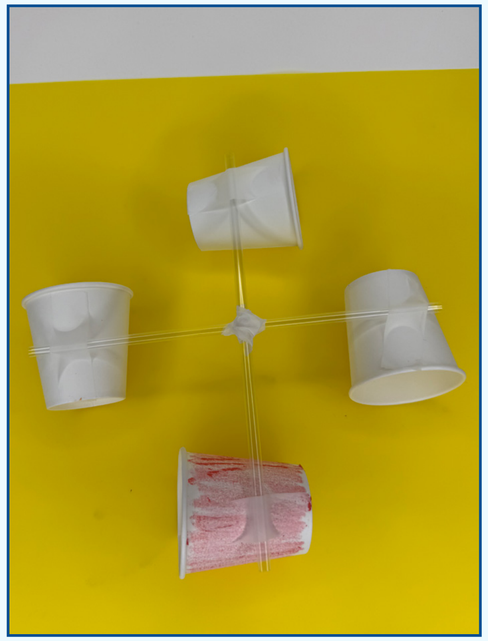


STEP 2

Take 4 small cups, color one of the cups with a bright color, write your name on another cup.

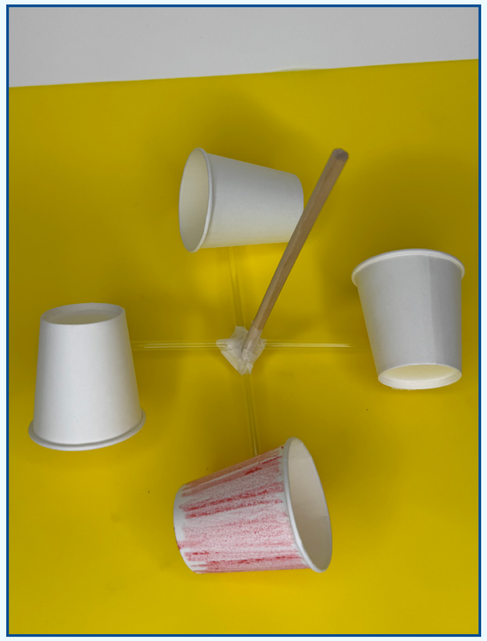
STEP 3

Use tape to attach the cups to the ends of a cross shape in the direction seen in the photo.



STEP 4

Tape the cross to the wooden rod.



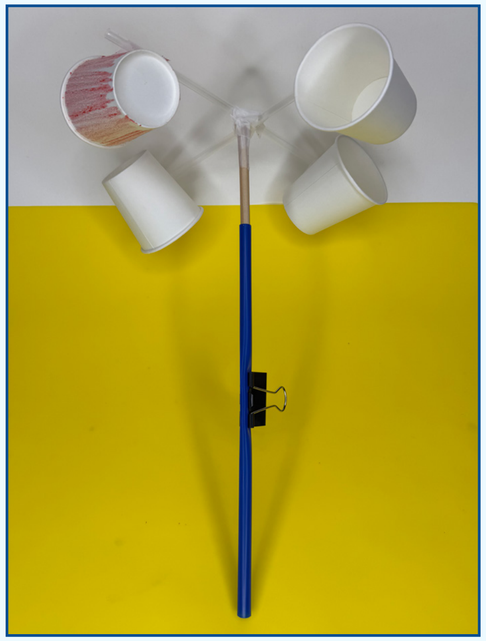
2 - ANEMOMETER

STEP 5

Clip the binder clip to the straw about half way up, pinching the straw as shown in the photo.

STEP 6

Place the bottom of the wooden rod into the straw so it can spin.



STEP 7

Make sure it spins freely.

STEP 8

Go outside and pick 3 different places or the same place at 3 different times.

If you can't go outside, you can blow on it.

STEP 9

Use a timer to count how many spins in 30 seconds (use 10 seconds if you are blowing on it).

2 - ANEMOMETER

Wind shapes landscapes, ocean currents, and helps cause upwelling, which brings nutrients to the ocean surface.

WIND SPEED ESTIMATES

For a 30 second timer:

1-5 Rotations = 3-14 ft per min

5-10 Rotations = 14-29 ft per min

10-30 Rotations = 29-86 ft per min

30-60 Rotations = 86-173 ft per min

LOCATION & TIME OF DAY	LENGTH OF TIME	NUMBER OF ROTATIONS	WIND SPEED ESTIMATE