



BUILD AN ANEMOMETER

Supplies:

Plastic Solo Cup (with lid & straw), 2 Paper Straws, Washi Tape, 4 Small Paper Cups (with 2 holes punched in opposite sides), Floral Pin, Water

1. Begin with a Solo cup or Tumbler (with a plastic lid & straw) as a base.
2. Lay the 2 paper straws down on the table in the shape of a plus (+) sign.
3. With the straws evenly spaced, press down in the center to flatten and tape the straws together using several strips of washi tape.
4. Next, you will need 4 small paper cups with holes punched on opposite sides for the straws to fit through.
5. Decorate one of the small paper cups to make it stand out from the others.
6. Slide the cups onto the straw ends, with the openings facing the same direction.
7. Add 2 small pieces of washi tape across the opening of the straw used as a base/stem (this helps in the next step).
8. With one hand, hold the taped straws on top of the stem and carefully poke a floral pin through the + straws & into the taped straw/stem opening.
9. Secure the + onto the stand using washi tape until the cups will stay level.
10. Add water to the base/cup to help weigh it down.
11. Find an outdoor (windy) location to begin using your anemometer.
12. For 1 minute, count the number of times the decorated cup passes by the same spot.
13. Record wind speed as the number of “rotations per minute,” or RPM.

Source: <https://inventorsof tomorrow.com/>