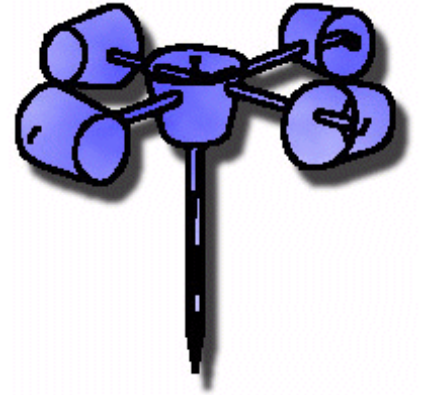



HOW TO MAKE AN ANEMOMETER

Supplies needed:

- 3-ounce Dixie® cups (5 per anemometer)
- Plastic straws/non-bendable (1 per anemometer)
- Straight pins with ball on top (1 per anemometer)
- New sharpened pencil with eraser (1 per anemometer)
- Single hole punch (1 per cooperative group)
- Stapler (1 per cooperative group)
- Extension mount (1 per anemometer), ex. meter stick, wooden dowel, PVC pipe, broom handle



Step-by-step procedure:

1. Take a Dixie® cup to be the center of your anemometer. Think of a compass face. Mark the cardinal positions, North, South, East and West on the rim of the cup. Punch one hole approximately 1 cm below the rim of the cup at each mark. One cm is about the width of your pinky finger.
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2. Using the sharpened end of a pencil, insert the pencil through the center of the cup. Remove pencil.
 3. Take four Dixie® cups and punch **one** hole one centimeter from the rim of each cup.
 4. Cut one straw in half. Bend each half and cut off the edges at the fold in the straw just large enough to insert the straight pin and allow the straw to spin freely.
 5. Slide one straw through two holes in the cup that will be the center of the anemometer. Add the second straw through the remaining holes.
 6. Insert the pencil, eraser end up through the center of the cup. Position the straws so the intersection is above the eraser. Push the straight pin through the holes in both straws and into the eraser. The center hole in the cup may need to be enlarged so the cup will be able to spin freely.
 7. Place a one-holed cup on the end of a straw. Put the stapler inside the cup and staple the straw to the cup. Repeat the procedure attaching the one-holed cups to the ends of the straws. The cups should be facing the same direction.
 8. Color the rim of one cup red to assist you in counting the number of complete turns made within a time period.
 9. While using the anemometer outside, attach the pencil to a meter stick or other extension mount to ensure standard height for data collection.