# Building Your Own Anemometer

An anemometer is a weather instrument that helps you see how fast the wind is. Simply put, the faster an anemometer spins, the faster the wind is. And you can build this weather instrument at home!
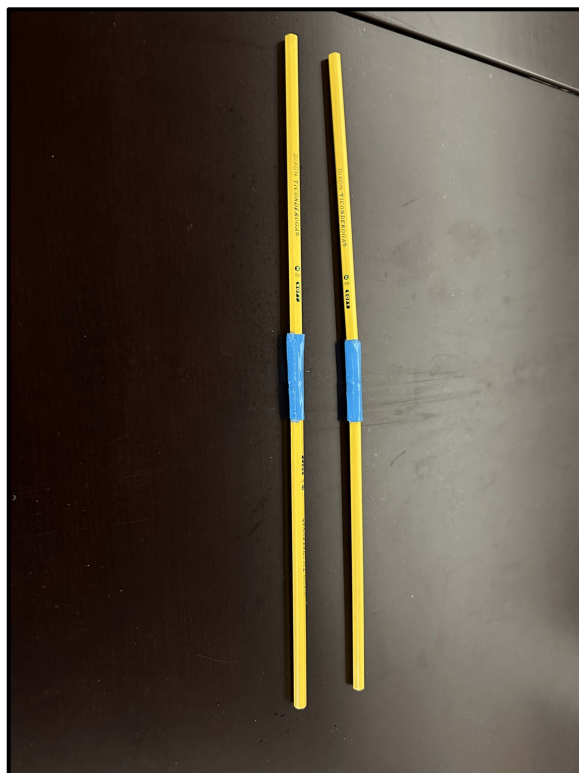
## Step 1: Gather Your Supplies



You will need:

- 5 paper or plastic cups
- 5 pencils (can also use sturdy straws)
- Hole punch
- Duct tape
- Straight pins

## Step 2: Tape the Pencils

You'll need for your pencils (or straws) to be long. So tape two pencils together (we recommend taping the eraser sides together) using the duct tape.



## Step 3: Punch Holes in the Cups



Take four of your cups and use your hole punch to punch two holes on opposite sides of each cup. Punch the hole near the top, and try to keep the holes as even as possible with each other.

## Step 4:  Punch  Holes in Your  Fifth Cup



With the fifth cup, double punch holes on each side of the cup. This is because you'll need the holes to be a little bigger on the cup that goes in the middle of your anemometer.

# Step 5: Attach Your Cups
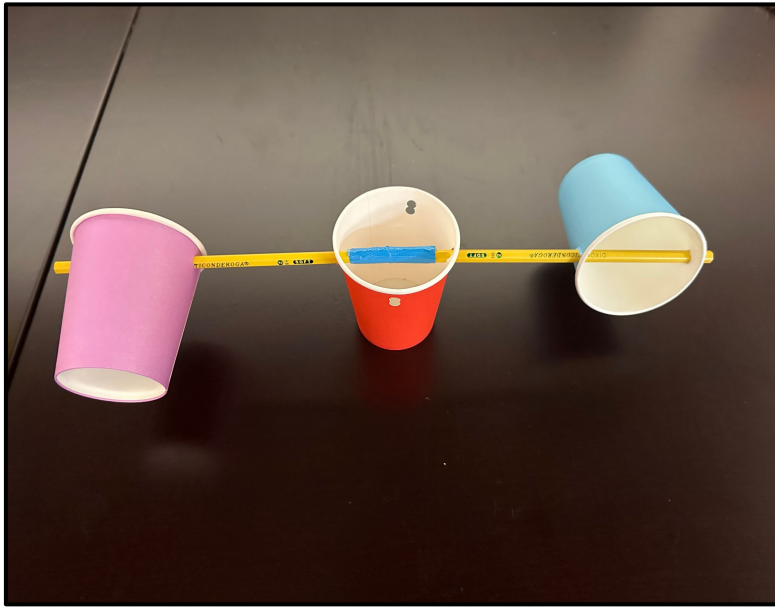


Take one of your taped pencils or straws and push it through the holes of three of your cups as shown above. The middle cup will be the cup you double-punched holes in. You will also want the cups at either end to be facing opposite directions.
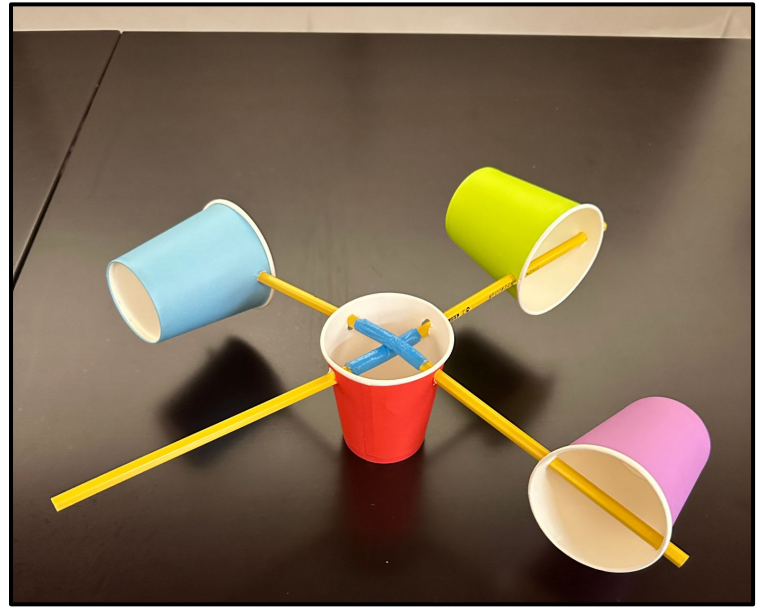


Take your other taped pencil or straw and push it through your middle cup so that you are creating a cross. Take your third cup and attach it like the picture above. It's important that all the cups face the same direction once assembled.
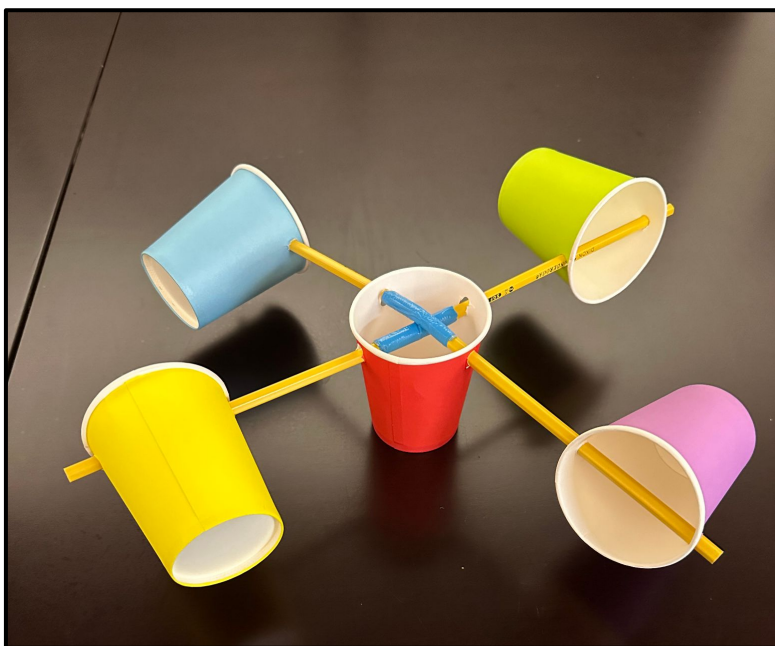


Attach the final cup to the anemometer. All of your cups should now face the same direction.

## Step 6: Attach the Last Pencil

Take your fifth pencil and punch a hole in the bottom of the middle cup. Attach this pencil to the cross of pencils in the middle. You can use a straight pin or use more duct tape to attach.

Your anemometer is now ready to use!