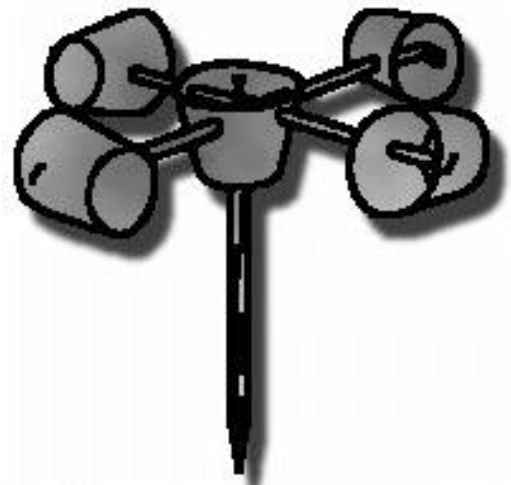


Build Your Own Anemometer

1. Take four 3-oz paper cups and label them 1 through 4. Punch one hole about $\frac{1}{2}$ inch below the rim of each. You can use a hole puncher.
2. On a fifth cup, labeled 5, punch 4 equally spaced holes $\frac{1}{2}$ inch below the rim. Punch a hole through the bottom of this cup. The hole must be slightly larger than the width of a pencil.
3. Push a plastic drinking straw through the hole in cup 1. Fold the end of the straw and staple it to the inside of the cup across from the hole. Repeat this with cup 2.
4. Slide the straw of cup 1 through one hole in cup 5 and out the other side.
5. Slide the end of straw from cup 1 that went through cup 5 into the hole in cup 3 and staple the straw to the inside. Make sure cup 3 faces in the opposite direction from cup 1.
6. Repeat step #4 with the straw of cup 2.
7. Repeat step #5 by sliding the end of the straw from cup 2 that went through cup 5 into cup 4 and stapling (make sure cup 4 faces in the opposite direction from cup 2).
8. Turn the cups so that all of the open ends face in the same direction.
9. Push a pencil, eraser side up, through the hole in the bottom of the center cup and secure it by pushing a pin down through the intersection of the straws and into the pencil eraser.
10. The anemometer is built!



Adapted from and diagram available from the Franklin Institute Science Museum (Philadelphia, PA).
sln.fi.edu/tfi/units/energy/dixie.html