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## Wind Energy Activity - Pinwheel Worksheet

## Step 1. Find the Wind Direction

To determine the current wind direction, lick your finger and hold it up in the air. Feel which way the wind is blowing on your finger (you should feel a coolness to the finger that has been licked if the wind is blowing directly into your
 finger).

## Step 2. Determining How Your Pinwheel Works Best

Hold your pinwheel into the wind (as determined in Step 1). Next, turn your pinwheel to a 90 degree angle from the wind. How fast does it spin? Fill your answer in the chart below.

Next, hold the pinwheel in a 180 degree angle (or opposite direction from the 90 degree angle) from the wind. How fast does it spin? Fill your answer in the chart below.

Now go find a very high point. On top of a nearby hill (if available) or a playground structure. (Note: remember to use caution when climbing playground equipment while holding onto your pinwheels!) How fast does the pinwheel spin when up high?

| How You're Holding <br> Your Pinwheel | How Fast It Spins <br> (Fill in Fast, Slow or No Spin) |
| :---: | :---: |
| $0^{\circ}$ <br> Into the wind |  |
| $90^{\circ}$ <br> Against the wind |  |
| $180^{\circ}$ <br> Against the wind |  |
| At a very high point |  |

At which angle did the pinwheel spin the fastest? $\qquad$

At which angle would a wind turbine work the best? $\qquad$

