

MAKER JOURNAL

Name: _____

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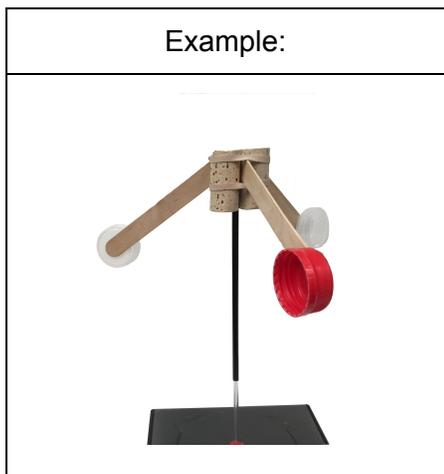
Project/Unit: Design a Weather Instrument

Lesson: Design Challenge, Ideate

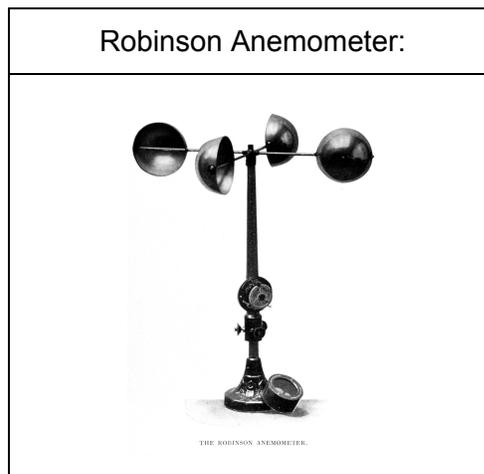
Anemometer (spinning style)

| | |
|------------------------|--|
| How it works | Anemometers are used to determine wind speed. One way to measure wind speed is to record how fast the wind will make something spin. |
| Criteria & Constraints | Spins freely Has method for counting number of rotations |
| Tips | Ensure the spinning part is light enough to move with minimal wind. Create a sturdy base support. |
| Material Suggestions | Light wind-catching objects (spoon/cup/cap) Pivot point - 2 straws of different diameters or pipette and straw/stick |

Example:



Robinson Anemometer:



Draw your anemometer design:

What materials will you need?

How will you measure distance or rotations?

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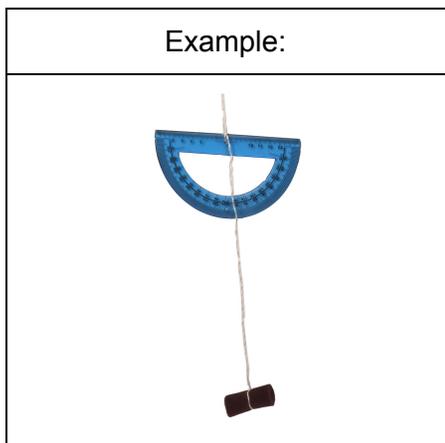
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Anemometer (protractor style)

| | |
|------------------------|---|
| How it works | Anemometers are used to determine wind speed. One way to measure wind speed is measure how high the wind pushes a hanging object. |
| Criteria & Constraints | Light enough to move with minimal wind. Has markings for measuring movement. |
| Tips | Beware spinning objects in the wind, you'll want movement in one direction. |
| Material Suggestions | Light wind-catching objects. |

Example:



Iron Weather Vane


Draw your anemometer design:
What materials will you need?
How will you measure wind speed?

