

# MAKER JOURNAL

Name: \_\_\_\_\_

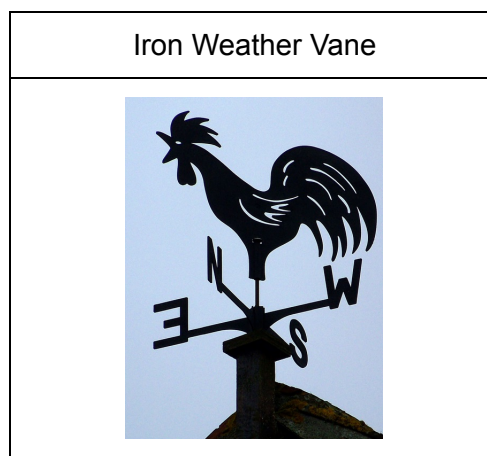
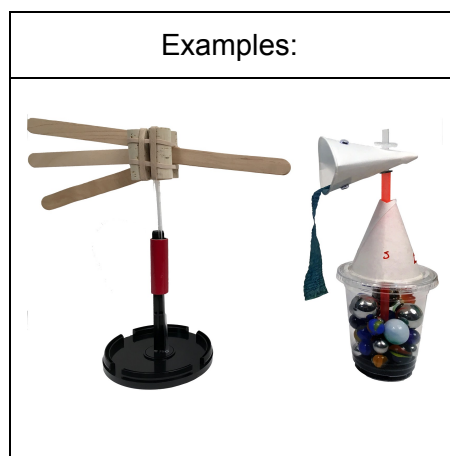
Date: \_\_\_\_\_

Project/Unit: Design a Weather Instrument

Lesson: Design Challenge, Ideate

## Weather Vane and/or Wind Sock

How it works	As wind blows against a weather vane, it will turn with the wind to indicate direction.
Criteria & Constraints	The instrument must turn to show the direction of the wind. Cardinal directions (north, south, east, west) are labeled. It must spin freely.
Tips	Use a compass to properly position north on the instrument to true north.
Material Suggestions	A weighted base to keep from tipping over A pivot point such as 2 different size straws overlapped



<i>Draw your weather vane design:</i>	<i>What materials will you need?</i>
	<i>How will you record the direction of the wind?</i>

# MAKER JOURNAL

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Project/Unit: Design a Weather Instrument

Lesson: Design Challenge, Test

## Weather Vane and/or Wind Sock

*What direction is the wind turning your weather instrument? Record the reading, where, and when you took this reading. Consult a local weather station, weather.com, or other source, to find the direction of the wind for that location at that time. Collect many readings at different times and on different days.*

Date/Time/Location	Wind Direction	Official Direction Recorded
Sept. 1/1:30/San Jose, CA	South	SW 1mph

*Compare how your data changes, and how the official data changes. Is your instrument accurate, and reliable?*

*Can you improve your instrument? How?*

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