

# Weather Merit Badge

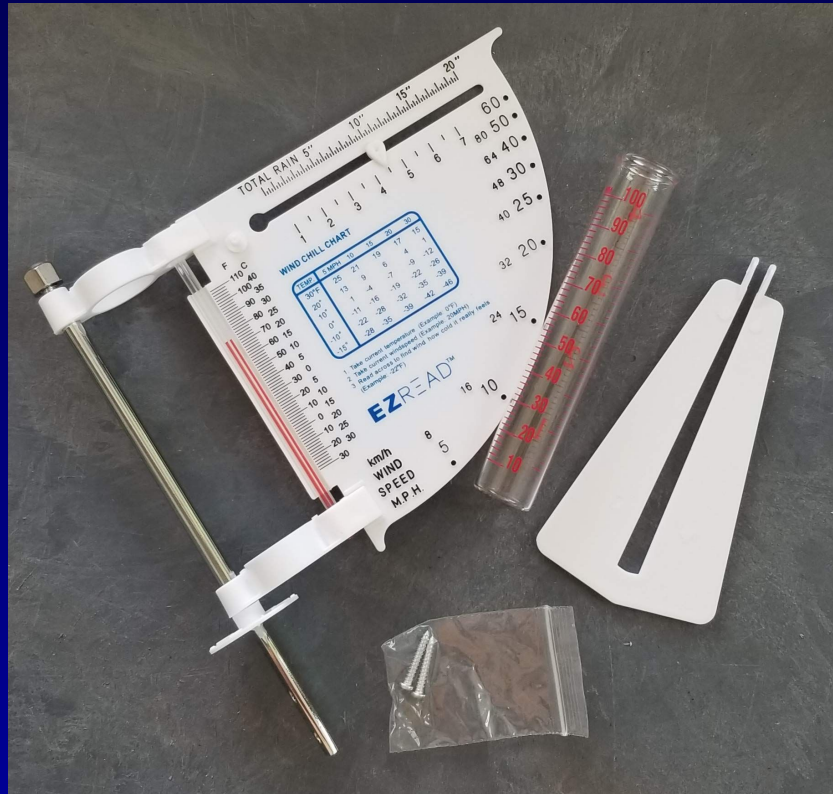
Hiller Aviation Museum

# Weather Instruments

## **Requirement 9A**

Make one of the following instruments: wind vane, anemometer, rain gauge, hygrometer. Keep a daily weather log for one week using information from this instrument as well as from other sources such as local radio and television stations, NOAA Weather Radio All Hazards, and internet sources ( with your parent's permission). Record the following information at the same time every day: wind direction and speed, temperature, precipitation, and types of clouds. Be sure to make a note of any morning dew or frost. In the log, also list the weather forecasts from radio or television at the same time each day and show how the weather really turned out.

# Parts



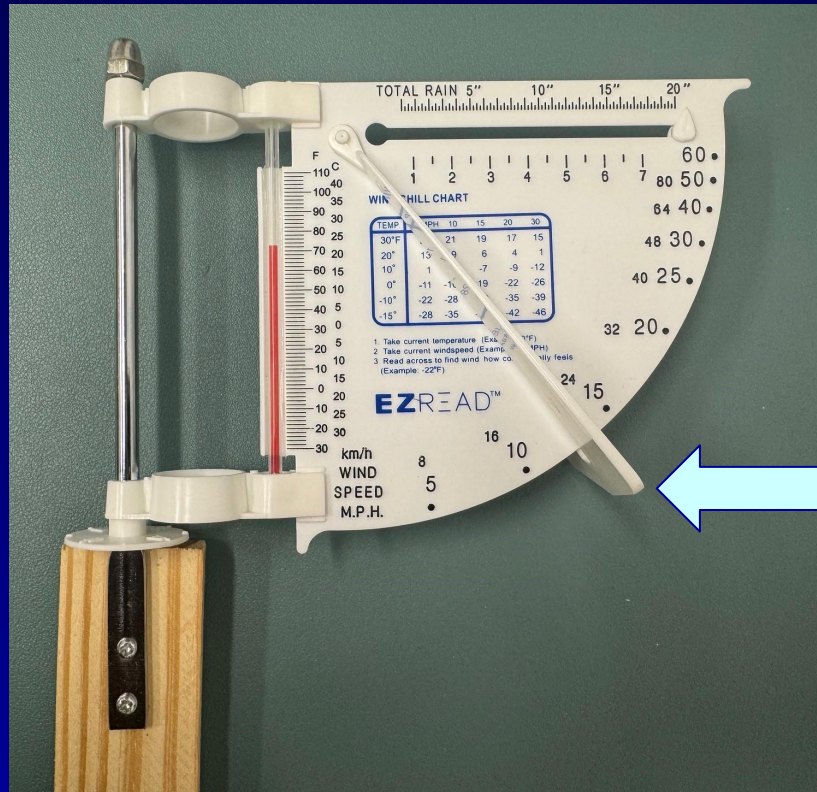
# Attach Station to Stake

IMPORTANT!

Remove glass rain gauge tube to avoid breakage.

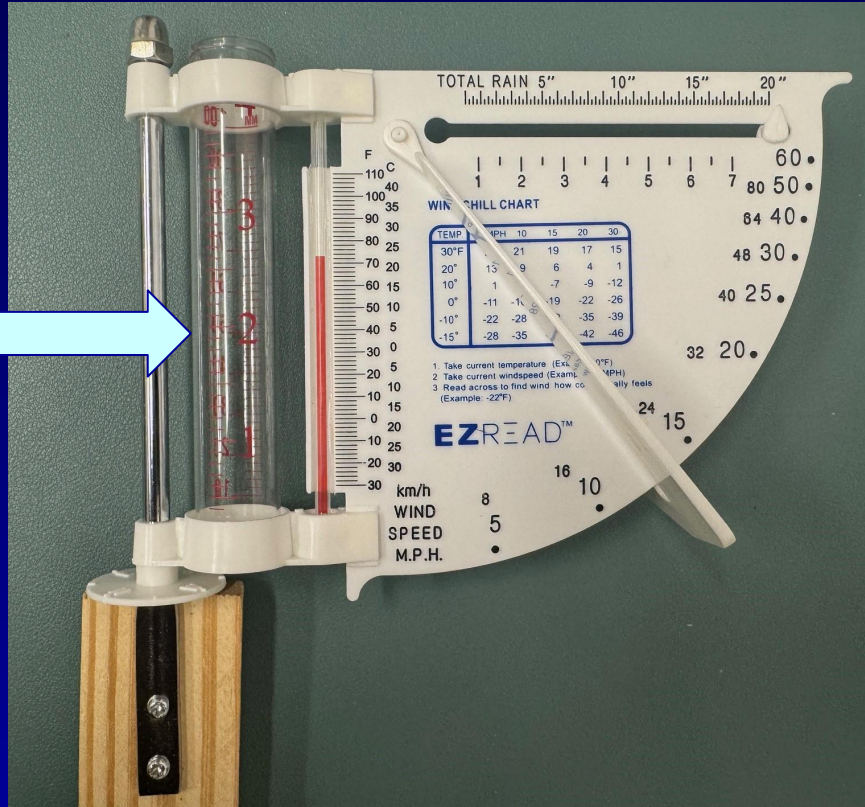


# Attach Anemometer Arm



Attach arm for anemometer.

# Insert Rain Gauge Tube



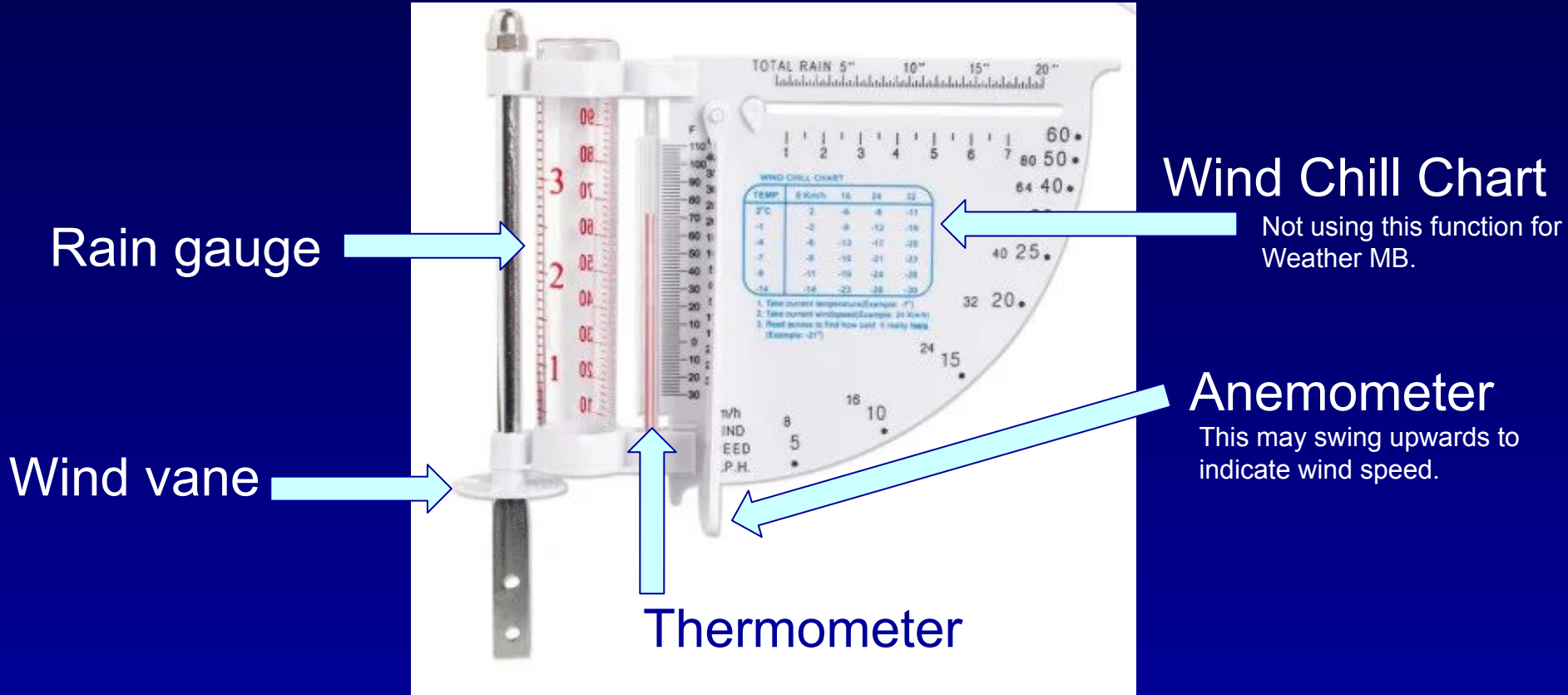
**Warning:** Rain gauge tube is made of glass and is fragile.

**Recommended:** Remove tube and keep safely wrapped when transporting .

If tube breaks, there are many DIY rain gauge guidelines on the internet with just the materials you likely already have at home!

Unfortunately, Hiller does not offer replacement rain gauge tubes.

# Parts of the Weather Station



# Weather Log - Homework

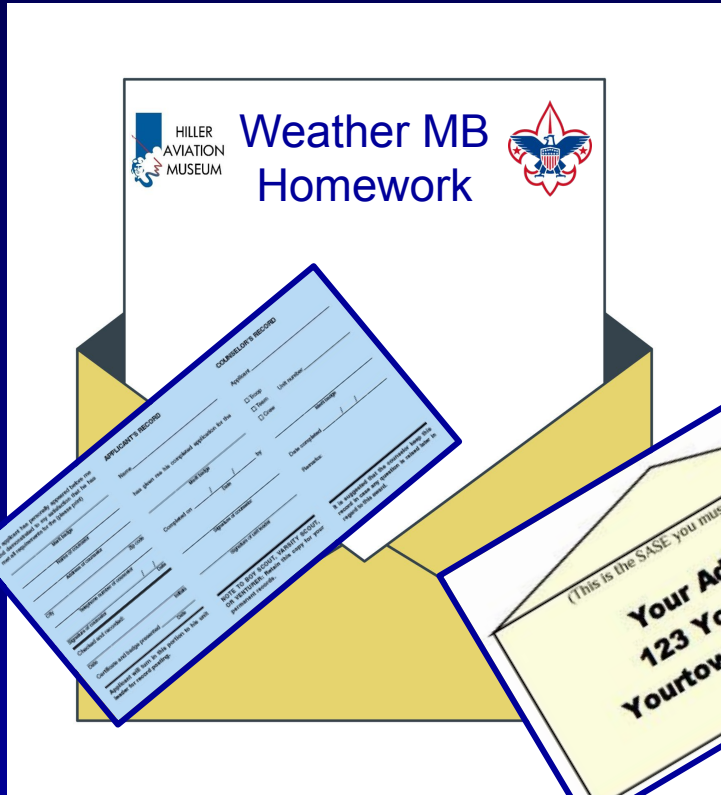
	Day 1	Day 2	Day 3
Date:	10/01	10/02	10/03
<b>SCOUT'S WEATHER DATA</b>			
Time	7:05 AM	6:58 AM	7:00 AM
Cloud Types	Cumulus	Cirrus	None
Dew/Frost	None	Dew	None
Precipitation	0	0.2 inches	0
Temperature	71 F	65 F	70 F
Wind Direction	NE	N	NE
Wind Speed	0mph	4 mph	3mph

Example (actual log covers 7 days)

	Day 1	Day 2	Day 3
Date:	10/01	10/02	10/03
<b>WEATHER DATA FORECAST (outside source)</b>			
Time	7:00 AM	7:00 AM	7:00 AM
Source	Weather.com	Weather.com	Weather.com
Precipitation	0	Light Rain	0
Temperature	68 F	68 F	70 F
Wind Direction	N	NW	NE
Wind Speed	5mph	4mph	4mph



# Weather Homework



Upon completion of both requirements 2 and 9A, please return these 3 things:

1. Completed homework sheet
2. Your partially endorsed blue card
3. A self-addressed stamped envelope to:



Hiller Aviation Museum  
ATTN: Merit Badge Homework  
601 Skyway Road  
San Carlos, CA 94070

Please allow up to 3 weeks turnaround time for your returned blue card to be returned.

No walk-ins accepted—if urgent, please contact us at [education@hiller.org](mailto:education@hiller.org) to arrange an appointment.