



Junior Weather Forecasters Challenge Observations Sheet

(print one for each day)

Name(s) _____ Date _____ Time _____ Temperature _____
(use thermometer or Calgary weather forecast)

STATION 1 – Barometer

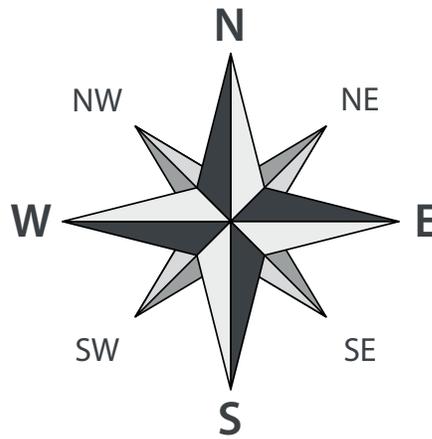
- High pressure (sunny, clear skies)
- Low pressure (cloudy, mild temperature, rain or snow)

What does the pressure tell you about the weather today?

STATION 2 – Wind Vane

Circle which direction the wind is coming from.

- No wind



STATION 3 – Anemometer

TABLE OF WIND SPEEDS (kilometres per hour)

Acute Angle	90	85	80	75	70	65	60	55	50	45	40	35	30	25	20
Speed (km/h)	0	9	13	16	19	22	24	26	29	32	34	38	42	46	52

1. Wind speed:

2. Look at your natural environment (trees blowing, grass moving etc). Does it match your wind speed observation?

STATION 4 – Rain Gauge

Amount of rain in last 24 hours:

STATION 5 – Snow Gauge

Amount of snow in 24 hours:

Other: Hail and Sleet

Hail: Estimate the size of hail using comparable objects (eg. Pea-sized, loonie-sized, golf-ball sized etc..). Only collect hail under adult supervision and when it is safe to do so.

Sleet (Rain mixed with snow) Record both amounts from rain and snow gauge.

Other observations

Sky observations (circle one closest to what you see):



Clear skies



Partly cloudy



Cloudy

Cloud type (Circle types of clouds you see):



Cirrus



Cumulo-nimbus



Stratus



Cumulus



Fog

Making your weather forecast

1. What do you really want to tell people about the weather today? What did you find interesting?
2. Does it match what local weather forecasts have predicted?
https://weather.gc.ca/city/pages/ab-52_metric_e.html
<https://www.theweathernetwork.com/ca/weather/alberta/calgary>
3. Do we have any severe weather?
(heavy rain, thunderstorms, extreme wind, extreme heat etc.)
4. What would you tell Calgarians to help prepare for today's weather?
(clothing, sunscreen, safety for severe weather)



Tips and Tricks

- Film your weather forecast outside near your weather station.
- Keep it short and simple – answer the questions above.
- Don't be afraid to show your personality!
- Have a trusted adult help you film your forecast.
- Check with your parents before using any social media.