Lab # 3 **Cloud Formation to Forecast weather**

Name and Partners: me + Bartholomew Date: Sept. 27

Purpose: to forecast the weather by observing the height at which clouds form the sky and the type of clouds formed stratus, cirrus, nimbus, and cumulus

Hypothesis: I can predict that the weather conditions will be partly sunny + cloudy over the next by observing cloud formations in the sky.

Materials:

-paper -pencil
-science text book -pencil crayons
-cloud classification

Procedure:

1. Go outside and sit where you can observe the clouds in the sky.
2. Sketch the sky and all the clouds you see on paper.
3. Write down the date, temperature, classify the clouds (as cumulus, cirrus, stratus, or other,) and make a prediction of short term weather patterns based on your cloud observations.
4. Colour the sky and clouds
5. Write detailed observations and record the clouds in the sky and the weather conditions. What weather conditions can you predict based on the types of clouds in the sky

Observations:

Date: Sept. 27

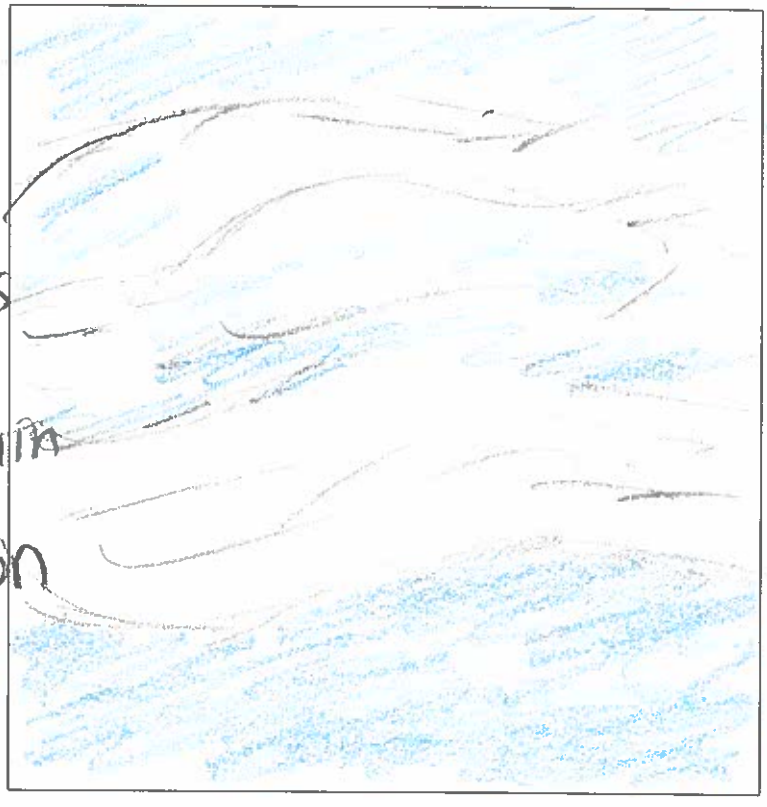
Temperature: 28°C

Cloud type(s): strato-cirrus clouds

Colour & blue skies

shape of clouds: wispy, seethrough, high in the sky

24 hour Prediction: Partly Cloudy, 0% precipitation



Date: Sept. 28

Temperature: 19°C

Cloud type(s): stratus clouds

Colour & Partly clear

shape of clouds: low and layered

24 hour Prediction: I predict because its 29° today, lots of clouds - no rain

Date: Oct. 1

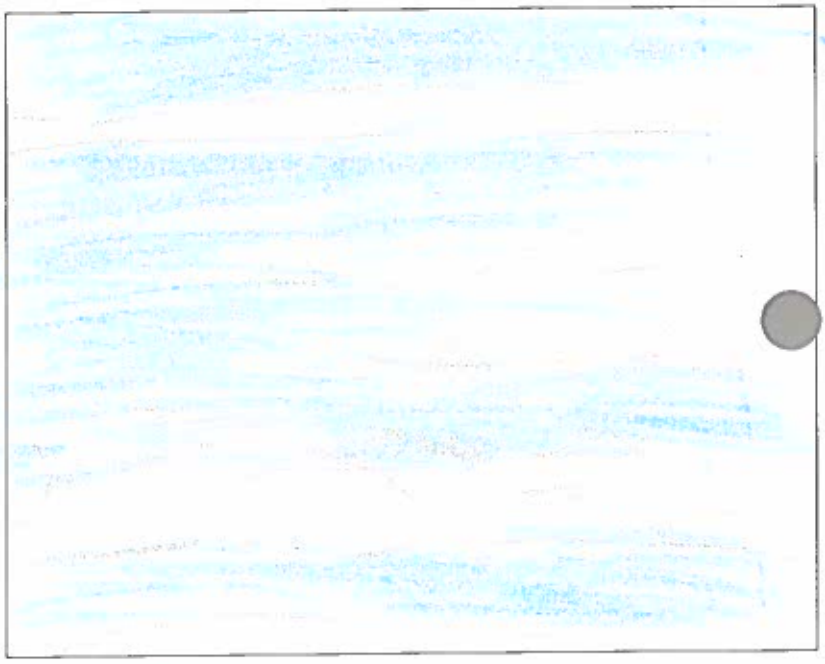
Temperature: 15°C

Cloud type(s): stratus

Colour & White

shape of clouds: thin, long, low

24 hour Prediction: Partly Cloudy partly sunny 0% rain 47% humidity



Summary of observations:

1) Sept. 27 - The temperature was 28°C, cirrus clouds, mostly sunny and partly cloudy, no rain predicted - I was correct ✓

2) Sept. 28 - The temperature was 29°C, the skies were mostly clear with some stratus clouds. I predicted no rain. I was correct.

3) Oct. 1 - The temperature was 15°C, partly cloudy with stratus clouds. I predicted no rain.

Conclusion: My prediction was correct, the week had warm temperatures, partly cloudy with stratus and cirrus clouds, no rain.