

Te Paepae o Aotea Science Badge

METEOROLOGY			
<i>Complete 20 stars</i>			
Rating	No	Activities	Sign
**	1	Visit a weather station, and make a report (in the form of photographs or brief notes	
**	2	Learn the appearance and names of the major cloud formations. You may have to read up books on clouds first. Go to the nearest library and ask the librarian to help you find the books. Take a photograph to show the particular types of cloud formations.	
*	3	Make and record daily observations of the weather for a week. This would include temperature, wind direction, rainfall, cloud cover etc.	
*	4	Obtain a weather map, learn what the symbols on it represent. Draw a chart to show the various symbols used on a weather map and what they refer to.	
*	5	Make a simple wind direction gauge.	
**	6	Make a cup anemometer and calibrate it.	
**	7	Make a rain gauge and calibrate it.	
**	8	Make a simple psychrometer and learn to use it.	
*	9	Record a rainbow using a camera.	
*	10	Write a poem on rain/sunshine/cloud.	
*	11	Find out what the Beaufort Scale is and make a chart of this.	
**	12	Make barometer and check its' reading.	
*	13	Write a report on the meaning of each of the following: isobar, isotherm, millibar, front, prevailing wind, doldrums, cirrus, evaporation, precipitation.	
**	14	Collect the weather maps from the paper	

		each day for two weeks. Next to each weather map record the weather conditions on that day.	
**	15	Become a weather forecaster. Using the daily weather map, predict the weather each day for a week, explaining the reasons for your predictions. Record next to your prediction the actual weather conditions on that day.	
*	16	Design a wall chart showing the Water Cycle.	
**	17	Over the space of one term, construct a graph showing the sunrise and sunset times.	
*	18	Use a thermometer and read and record the temperature each half hour over a 12 hour period.	
**	19	Learn how to use a minimum-maximum thermometer. Record the maximum and minimum temperatures each day over a month. Graph your results.	
*	20	Write a report on the use of weather balloons.	
**	21	Write a report on the sources of information that NZ uses to produce weather forecasts.	
*	22	Explain how rain, hail and snow are formed.	
*	23	Explain how two of the following occur; a hurricane and monsoon rains.	