Name ________________________________ Period _____ Date ___________________

Charting Weather: Melbourne

Check the accuracy of the weather forecasts in your area for the next week. Complete the chart by recording the **forecast** for the week's weather and then recording the **actual** weather for that day on a daily basis. Indicate whether or not the forecast was accurate by circling yes or no.

	Date	Temp. Range High - Low		UV Index	Precipitation/ Sky Condition (Clouds, etc.)	Wind Speed & Direction	Humidity	Pressure	Sunrise	Sunset	Accurate Forecast? (Circle one)
Forecast	Example	74	57	7	Rain	NNE, 8 mph	35%	32.22 in.	7:11AM	7:41 PM	Yes (circled) No
Actual		75	54	7	Rain	NNE, 8 mph	35%	32.22 in.	7:10AM	7:41 PM	
Forecast											Yes No
Actual											
Forecast											Yes No
Actual											
Forecast											Yes No
Actual											
Forecast											Yes No
Actual											
Forecast											Yes No
Actual											
Forecast											Yes No
Actual											
Forecast											Yes No
Actual											

Meteorology is the study of weather, and meteorologists are scientists who study and predict weather. Weather is the state of the atmosphere at any given time and place. Most weather takes place in the lower layer of the atmosphere. Weather occurs because our atmosphere is in constant motion from the sun's energy reaching the surface.

Some determining factors of weather are temperature, precipitation, fronts, cloud type, and wind. Other more severe weather conditions are hurricanes, tornadoes, and thunderstorms. High pressure occurs when air is sinking. Good clear weather is the result because the air is stable. However, low pressure areas are associated with unsettled weather conditions such as clouds, storms, and wind. This happens because air rises when it is unstable. Weather changes occur during the day. Weather also changes every season because of the Earth's tilt when it revolves around the sun.

Online Resources: www.weather.com; check "related to outdoors" option