Unit Activities: Weather Variables

Name:	Block:	
	Unit Objectives	
	Use and interpret weather station models.	
	Understand the relationship between weather variables.	
	Be able to use various weather instruments and charts.	
	Recognize the cause of precipitation.	
	Notes	
	(checked at end of quarter)	
1	Air Pressure and Wind	
2 3	Locations of Clouds and Precipitation	
3	Midlatitude Cyclone	
4	Dew Point and Relative Humidity	
	Base Assignments	
	(underlined assignments are mandatory)	
	Assignment 1: Due / /	
_	5 points	
5	<u>Lab: Station Model</u>	
	Assignment 2: Due / /	
	Choose 10 points	
6	Flash Cards: (5 points) create flash cards using the following words- anemometer, barometer, weather station mode	el,
_	pressure gradient, dew point, relative humidity, air pressure, density, Coriolis Effect	
7	Concept Map: (5 points) create a map using the following words- pressure gradient, dew point, relative humidity, a	
	pressure, density, Coriolis Effect, millibar, temperature, wind. You may do this on a sheet of paper or use the progra "Inspiration" available on any school computer.	111
8	Create a web page: (5 points) the page should include information from one of the lectures from this unit. Be sure	to
	include graphics and links as described in the rubrics.	••
9 10	Book Work: (5 points) Read or listen to Weather Analysis on Pp. 312-321 and complete Study Guide 12-3/12-4.	
10	Earthweek: (5 points) go to the Weather Variable Unit on the class web site and follow the Earthweek link and downlo	
	"This Week's" map. Write down at least 3 events from the map that are weather related. For each event explain how	at
11	least 3 weather variables most likely changed just prior to the event taking place.	
11	Create a Video Forecast: (5 points) use current weather maps, local data, and web sites to develop a forecast for the ne few days. Record yourself and a team member delivering the forecast. Be sure the video includes a weather map and the	
	you provide a reason for the weather you are predicting.	iai
12	Create a Weather Poem: (5 points) write a poem that uses at least 10 weather-related words.	
13	Dew Point and Relative Humidity	
10		
	Assignment 4: Due / /	
14	5 points	
14	Lab: Determining Dew Point	
	Assignment 5: Due / /	
	5 points	
15	<u>Lab: Density of Air</u>	
	Assignment 6: Due / /	
	5 points	
16	<u>Lab: Weather Log</u>	
	5 points	
17	Lab: Weather Relationships	
	Problem Solving Assignment	
	5 points	

18 How Do Clouds Form?