Name:				Class					
		Grade	8 SCIENCE - GUID	DED NOTES					
Chapt	er 4 –Weatho	er Lesson: 1	- Describing Weather	Pages: <u>117 - 1</u>	<u>l21</u>				
Page Number	Title/Sub- Title	Guided Notes							
117	What is Weather?	What is the definition of weather?							
117	Weather Variables								
		What is a meteorologist?							
		List 6 different weat	her variables from the read 2	ing:					
		3	4						
		5	6						
		Describe these variables of weather.							
		Variable	Description	How It Is Measured					
		air temperature		thermometer; measured in °C or °F					
				barometer; measured in millibars (mb)					
				anemometer; measured in mph or km/h					
				measured in g/m ³					
18	Air Temperature	What is the definition	n for air temperature?						

		Explain the kinetic energy of the molecules of air when the air temperature is high.	
		What four factors can impact air temperature?	
		1 2	(
-		3 4	
18	Air Pressure	What is air pressure?	
		Draw Figure 1 below. Be sure to label your diagram	
		What happens to air pressure as altitude increases?	
		What does the term "barometric pressure" refer to?	
		What instrument is used to measure air pressure?	
		What unit of measurement is barometric pressure usually measured in?	
18	Wind	What creates wind in our atmosphere?	
		How is wind direction measured?	
		What instrument is used to measure wind speed?	
		What is humidity?	
18	Humidity	What is humidity?	
		How is humidity measured? What unit of measurement is used?	

	1.00	What does it mean if the humidity is high on a particular day?					
9 Relative Humidity		What does it mean when air is "saturated"?					
		What determines the maximum amount of water vapor that air can hold?					
		Does warm air or cold air contain more water vapor?					
		What is relative humidty?					
		What instrument is used to measure relative humidity?					
		What happens when air has a realtive humidity of 100 percent?					
		Explain what a relative humidity of 75 percent indicates.					
119	Dew Point	When air near the ground becomes saturated with water, the water vapor will condense and form water droplets. If the temperature is above 0°C, what will form?					
	-	When air near the ground becomes saturated with water, the water vapor will condense and form water droplets. If the temperature is below 0°C , what will form?					
		What is dew point?					

		Identify the event be reached.	ts that must occur in order f	for the dew point to		
		1. Air temperatu	re	**************************************		
		2. The amount o	f moisture in the air	•		
120	Clouds and Fog	Sequence the steps in cloud formation. Warm air that contains water vapor and				
		Type of Cloud	Appearance	Altitude		
		Stratus				
		Cumulus				
		Cirrus				
121	Precipitation	What is precipitati	on?		assaud.	
		List 4 different typ 1 2 3 4	pes of precipitation:			

		What is rain?
		What is snow?
		What is sleet?
		What is hail and HOW does it form?
		What is the difference between snow and sleet?
	/T'1 - XV/ - 4	What is the water cycle?
122	The Water Cycle	
		How does most water vapor enter the atmosphere?
		What "powers" the water cycle?
	·	Label the water cycle in the illustration below, and then explain how the water cycle relates to weather.
		Cloud formation
		Snow!
		Ocean
		Surface
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