What Is Weather? (p. 454 – 461)

I. Weather Factors

	1.	Define the term weather.			
		Weather-State of the atmospheric conditions at a specific time + place			
		specific time + place			
		What are form footons that influence weather?			
		1. Air Pressure 2. Wind 3. Temperature 4. Humidity			
	3.	Define the term humidity. Humidity - Atmount of water vapor held in the air (warm air = Holds More water vapor)			
		Humidity -			
		(warm air = Holds More world vapor)			
	4.	Define the term relative humidity. The amount of moisture in			
mo		Relative Humidity—Measure of the amount of moisture in the air. Compared with the amount it can hold at a given temperature (0% to 100%) Circle the letter of each sentence that is true about relative humidity.			
IMO		given temperature (0% to 100%)			
	5.	Circle the letter of each sentence that is true about relative humidity.			
,		Reported by Weather Station			
		o. It is all the water rapor that the air ear nota.			
		d. It measures how hot it feels.			
	,	Distribution of the Meter Meters			
	6.	Relative humidity can be measured with a(n) psychrometer. (Not in book.)			
	7. Circle the letter of each sentence that is true about how a psychrometer works. (Not in the book.)				
		a. The dry-bulb thermometer is cooled by evaporation when the wind blows.			
		a. The dry-bulb thermometer is cooled by evaporation when the wind blows. The higher the humidity, the faster water evaporates from the bulb. The wet-bulb thermometer reading is always higher than the dry-bulb reading.			
		The wet-bulb thermometer reading is always-higher than the dry-bulb reading. (d.) When relative humidity is high, there is little difference between thermometer readings.			
		when relative numbers is high, there is notice difference between thermometer readings.			
II. De	W	Point			
	1.	Define the term dew point.			
		Dew Point - Temperature at which air is saturated and condensation forms			
	2. Circle the letter of each sentence that is true about condensation of water vapor.				
		a. It occurs when air gets warmer			
		b., It can occur on cold surfaces. (Slows of the control of the course			
		c. It explains why clouds form.			

d. It can form on dust particles.

		Name		
3. Ma	ntch the terms with the cor	rect definitions.		
	1. D - Condensation	A. Ice that has been deposited on a surface with a temperature below freezing. (Deposition phase		
	2 Dew Point	B. Water that condenses from the air onto a cooler surface.		
	3. <u>B</u> - Dew	C. Temperature at which condensation begins.		
	4. <u>A</u> - Frost	D. Process by which molecules of water vapor become liquid water.		
III. Forming				
1. Co	mplete the flowchart of ho	w clouds form.		
1. Co Clouds: Form on: Salt crystals dustre smoke	Clouds form as	air is forced upward, expands, and cools.		
FORM Cryster	A a the air se			
Salte	As the air co	ols, relative humidity <u>INCIEGSES</u> .		
Smoke	Re	elative humidity reaches%.		
The second secon				
	Water vapor begins to	and form tiny droplets, which form clouds.		
IV. Classifyi	ing Clouds			
1. Ma	atch the type of cloud with	the correct characteristics.		
Strato:	1. R - Cumulus	A. Wispy, feathery clouds; High altitudes (Approaching Storm) B. White, fluffy clouds; Low to high altitude (Fair weather C. Gray, flat layers; Low altitudes (Ram, drizzle, 5 now) D. Towering clouds (up to 18 km); Indicate thunderstorms		
ow elevation	2 Stratus	B. White, fluffy clouds; Low to high altitude (Fair weather		
tito:	3. A - Cirrus	C. Gray, flat layers; Low altitudes (Rain, drizzle, 5 now)		
Fale Elevation	4 Cumulonimbus	D. Towering clouds (up to 18 km); Indicate thunderstorms		
V. Precipita	tion			
1. Define the term precipitation.				
	Precipitation - Water F	alling From clouds whose form is by air temperature		
2. Ma		on with the correct characteristics.		
	1 Rain A. I	Raindrops that pass through a layer of freezing air near Earth.		
	2 Hail B. A	Air temperature so cold that water vapor becomes solid.		
	3. <u>A</u> - Sleet C.	Drops of water falling at temperatures above freezing.		
	4 Snow D. I	Lumps of ice that grow when tossed by cumulonimbus winds.		