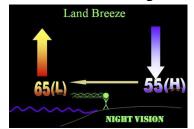
Lesson: <u>Atmospheric Va</u>	<u>riables</u>		
I Can/Main Ideas	<u>Notes</u>		
I can define weather	Weather is the condition of	the	in the
	atmosphere at a given	and _	·
	Variables -	, air pressure, _	, cloud
	cover,	, etc.	
I can name the 3 scales	3 scales are: (ESRT pg	_)	
for temperature & how to use the ESRT chart	, and		·
-	Temperature is measured us	sing a	
I can name the instrument used to	(liquid filled glass tube)		
measure temperature	Temperature is modeled on 1	maps or charts by	using
	()		3
The second of the section	When air rises in the atmos	ohere it	& its
I can describe air pressure & use the	temperature		
ESRT	Pressure & Density are		
	The denser the atmosphere	the	the weight &
	therefore the	the pressure	2
I can name the		(ESRT pg)
instruments used to	Mercury		
measure pressure	Aneroid	()
T can cynlain haw	Water weighs less than the	or	_ that it replaces, which
I can explain how moisture in the air	is why the more	in the	e air the
affects density &	the pressure & density.		
pressure	As the temperature of air	increases the den	sity & pressure
Type of Gas Relative Molecular Weig N = N ₂ , nitrogen molecules 14 O = O ₂ , oxygen molecules 16	int		
W = H_2O , water molecules 10 Dry air NNO NN Air with water vapor	As the altitude increases	the density & nose	cuno
NNNO NNWW	As the altitude increases :	ine delibity a pires	Jui 6

Name: _____

Chapter 7-Study of the Atmosphere

Lesson: Wind I Can.../Main Ideas Notes I can define wind _____ movement of air parallel to earth's surface Named from the _____ they come ____ Caused by ______ in air pressures I can explain what Air pressure gradient - _____ in air pressure for a causes wind specific _____ the isobars = _____ Pressure Gradient & _____ Wind Speed Winds move from: Areas of pressure to areas of _____ pressure Coriolis Effect () causes winds to move - _____Northern Hemisphere _____ Southern Hemisphere I can name the _____ - Instrument used to measure instrument used to wind speed, Measured in _____ & ____ & ____ measure wind tells the direction of the wind Unequal heating of Earth causes huge _____ I can describe planetary winds & use _____ around Earth (ESRT pg ____) the FSRT Bands of _____ moving air at the top of the _____ called _____, blow miles an hour or more Sea Breeze I can describe local SEA BREEZE breezes Air blows from the _____ onto the

___ during the ____



LAND BREEZE

Air blows from the _____ out to

_____ at ____

	Monsoons: -Similar to	scale	/	
	breezes. Causes			
I can understand	Caused by	_ blowing over the	&	
water currents & use the ESRT	transferring	to the water		
	Direction of Currents is a	ffected by: (ESRT pg _)	
	1)			
	2)			
	3)b			
Laccan: Humidity & Day				
Lesson: Humidity & Dew I Can/Main Ideas				
I can define	Amount of moisture in th	e air is		
atmospheric moisture & describe how it enters	3 states of matter - 1) _		_, 2)	
the atmosphere	3)			
	Gaseous water in the atmosphere is called			
	Water vapor enters the c	itmosphere by:		
	-		changes to	
	-		release water vapoi	
	-	change of pha	se from	
	to(NO pho	use)	
I can describe factors	Factors INCREASING ev	aporation:		
that increase &	1		available.	
decrease evaporation	2	in		
	of the water			
	3		_ speed	
	Factors DECREASING ev	aporation		
	1	in	of the air	

I can describe humidity	Absolute Humidity	of water	present
& how temperature affects it	in the air		
4,7661311	Moisture Capacity	amount of wa	ter vapor the air
	Relative Humidity	between	
	&		
30° C	HOT AIR HOLDS	MOISTURE	THAN
20° C	AIR		
Water Vapor Water Vapor	1) Temperature	but amount of	water vapor
100 % 52 % 28 % Relative Relative Humidity Humidity Humidity	remains the SAME, then the	Relative Humidity will	·
numery numbers	2)Temperature	but amount	of water vapor
	remains the SAME, then the	Relative Humidity will	
	3) Temperature remains the	SAME, but MORE wat	er vapor is added,
	then the Relative Humidity w	ill	·•
I can name the instrument used to	Instrument used to measure	is called a	
measure humidity	Smaller the difference between	een the & _	bulb
	temperature the		the air
I can define Dewpoint	Temperature at which the air	becomes	
	with water vapor & the		is%
	Air drops BELOW the		
	will occur (FORM)	
I can explain cloud	1 Air		
formation	2 & _	 	
	3. Reaches its		
	4	(Formation)
	5	-	







If the	_ and	
thear	e the	
same or almost the same you get		
(any precipi	tation)	

Relative Humidity	& Dewpoint	Chart is on ESRT	og
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Lesson: Air Masses

I Can.../Main Idea

<u>Notes</u>

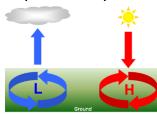
Review

Weather Factors Associated with Different Pressure Areas

- Fill in the blanks below using the terms in the center of this chart.
- Draw an arrow on the line provided at the center, top of the chart to show the direction the wind blows (from _____ pressure to _____ pressure).

High Press	ure	Low P	ressure
Air moves	(in / out)	Air moves	
Air is	(rising / sinking)	Air is	
Air is	(warm / cold)	Air is	
There are	(clouds / no clouds)	There are	
There is	(Precipitation /no precipitation)	There is	
	Use the diagrams to the left and right to determine if the air is moving clockwise or counterclockwise around the center of the pressure system.		5
Air moves	(clockwise / counter clockwise)	Air moves	

I can describe high & low pressure systems



Draw arrow on the word High & label the HOC & the key to playing ice hockey >

Highs (' \
ngns (. /

- Winds blow _____
- Coriolis effect causes highs to move _____

- _____ temp

- _____ Air

High

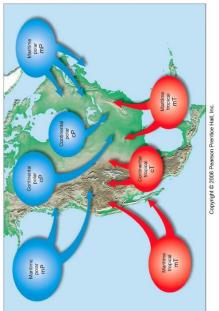
н_____

c_____



I can describe the four	Lows (_)-
different weather	- Winds blow	_ toward the
fronts	 Coriolis effect causes 	lows to move
Draw arrow on the word Low & label the LICC & what happens when a dog licks you—>	air	L I C C
	Low	<u> </u>
Make sure to LABEL the COLD air & WARM air & where the rain is occurring on the cold & warm fronts		and
Draw symbols for occluded & stationary	Occluded Symbol	
fronts	Stationary Symbol:	
ESRT pg		

I can describe what an air mass is & where it came from



ESRT Pg _____

Lesson: Storm Safety

<u>I Can.../Main Idea</u>

I can describe safety
precautions for a
thunderstorm



I can describe safety precautions for a tornado



Air Mass - large	of with
characteristics of	,
·	
- An air mass forms when	a mass of air remains
	for a period of time acquiring
	·
Sounce Decions where air me	accoc
Source Regions - where air mo	
Temperature:	
High Latitude →	Low Latitude →
Humidity:	
Land →	_ Water →
m =	c =
T =	P =

Notes

Thunderstorm Safety

Stay ______ & _____ from windows
 If in your car, stay ______ the ______
 If ______, stay ______ to the ______ objects
 Ex: trees & lampposts

Tornado Safety

- Go into a _____ or storm ____
 - If None
 - o Stay away from _____
 - o Stay away from _____ objects
 - o If in a _____ an

I can describe safety precautions for a	Blizzards are dangero	us winter storms that are o	a combination of
blizzard		and	resulting in
			 •
* * * *	 Dress 	& keep	
	 Have 	&	

I can describe safety precautions for a hurricane



•	Board or	windows &
	Especially	in coastal areas due to

Have _____ & back up ____ source if

• If you can't leave

the power goes out

_	Make sure you have	&	
	supplies		
_			
		etc	: .