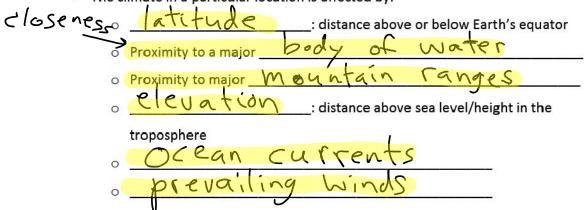
Name:	Unit 3: Weather, Climate & 1	The Atmosphere	NOTES: 3.02	
FOCUS: Weather and Climate				
ESSENTIAL QUESTION: Can ye	ou explain the difference	e between weather a	nd climate?	
What do you already know? • We live in a layer of the	atmosphere called the	+copaspl	jere,	
which is where nearly all weather occurs.				
• Temperature $decreases$ as elevation increases in the troposphere,				
	e ground is Warw			
What is meant by the term "	weather"?			
· Weather is the the atmosph a particular y	state of ere at place & time	業		
• Can change from da and hour to ho	y to day		*******	
• Described by variations		\$ ***	*** **** ****	
measure of average kinetic energy of the air molecules				
: measure of the amount of water vapor in the air				
Precipit	: the horizontal d	direction and speed o t, snow, freezing rain		
falls from clouds	to Earth.	🦰 : the pressure exe		
weight of the atmosphere on Earth's surface.				
• Example: Today's Weather will be 61°F, mostly cloudy, humidity				
of 59%, ENE wind at 9mph, 20% chance of rain, falling barometric pressure.				

Name:	Unit 3: Weather, Climate & The Atmosphere	NOTES: 3.02
What causes weather to	occur?	
• Weather is caused I	by the like the street of the	WARMA COOLING AN DESCENDING
of land an	d water	COOLER AIR OVER
by the	Sun.	TOWARD LAND
 Results in a cyclical sinking of 		
	Convection currents	
• Differences in air	temperature and pres	5U re
	m fronts, and other weather phenomenon.	
What is meant by the ter	m "climate"? IR Weather cond. IR Weather cond. IR Weather cond. In an area over It time. It temperature average In humidity. Ire and WIND over a long period of the conditions.	tions
• Climate is	le weather corpa	a long
prevailing is	at time	
Petrod	tomosoture	
• Specifically average	ion humidity	
air pressu	and WIND over a long period of t	time.
• Examples:		
o North Carolin	na's climate is + emperate	(moderate
temperature	, moderate precipitation) with hot,	humid
summers and	desert climate with Not	- dr
summers and	mild, dry winters.	

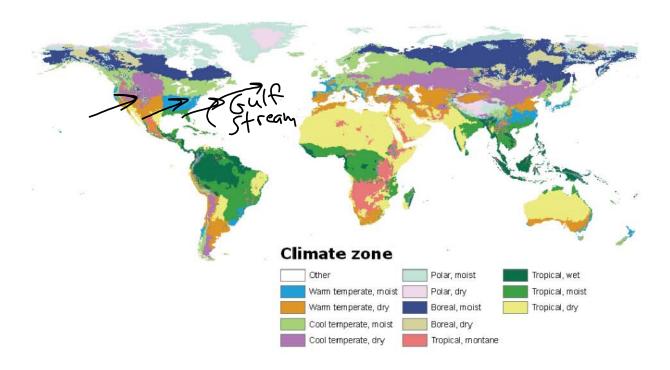
Name: ______Unit 3: Weather, Climate & The Atmosphere NOTES: 3.02

What causes the climate in a particular location?

• The climate in a particular location is affected by:



Climate Zones



warms
desert