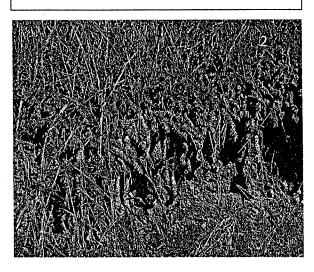
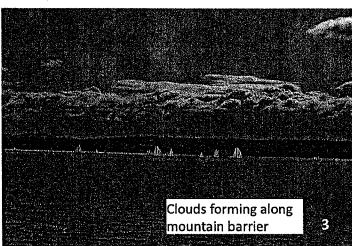
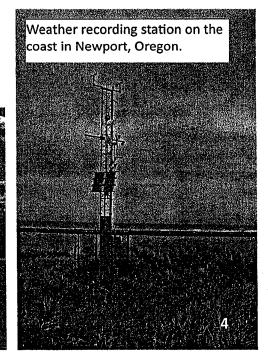


Cacti growing on a south-facing slope on Whidbey Island, in northwestern Washington State.





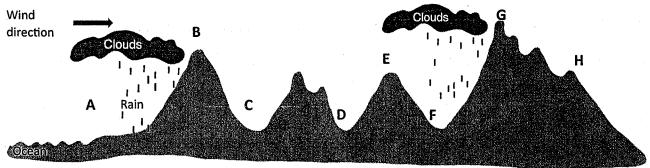


Topic: Weather Photographs	Name
Use the photographs on the previous	page to answer the questions below
1. The cirrus clouds in photograph 1 indicate an approac	ching front.
2. Will the air pressure in the Kootenay Lake area in th	ne photo rise or drop as the front approaches?
3. What type of clouds will follow the cirrus clouds? Lis	• •
Finally, the cloud arrives that produces the majority of - a cloud.	
4. In photograph 2, cacti grow on a southwest facing slexample of a microclimate. Define microclimate.	lope in sandy glacial till. This slope is an excellent
5. A relatively high mountain range to the west of the along this slope. How do mountain barriers affect clima	
6. Aspect has also played a role in making the climate a surrounding area. Define aspect.	along this slope considerably different from the
Explain how aspect affects average temperatures in th	his area.
7. In photograph 3 heavy clouds obscure the tops of the clouds formed along the mountains only and the rest of	·
8. Air forced to climb over a mountain barrier produce	es precipitation.

Topic: Weather Photographs

N 1				
Name				

Use the diagram below to answer questions 9 - 14



). Which location experiences the coldest temperatures?	
10. Which location experiences the greatest amount of annual precipitation?	
11. A temperature inversion would most likely occur at location Explain why.	
12. Which of the map locations would experience the least annual precipitation?	
12. Which of the map locations would experience the least annual precipitation? 13. Air pressure would be the lowest at location	
13. Air pressure would be the lowest at location	
13. Air pressure would be the lowest at location	

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opic: Weather Knowledge Tester	Name		
Use the information from the weather st		19	891
give as thorough a description of the wed	ather as possible.		
· ·		19	/021
. Draw a detailed cross-section of a warm	front. Name at least 3 clouds on	your drawing.	
	,		
	•		
3. Define the following terms:			
_			
•			
El Niño			
4. Name the cloud that builds vertically in			old fronts, a
often is associated with hail and thunders	itorms	•	
5. Following a cloudless and windless night Columbia motorists as they drive to work	in early spring or fall, fog can of in the morning By 10 or 11 a.m. th	ten be a problem for le foa has dissipated	r British I only to
reappear by late afternoon. Give the name	e for this type of fog		
Why does the fog disappear by late morn	ing and then reappear by late afte	ernoon?	

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Unit 3: Weather and Climate

Topic: Weather Knowledge Tester	Name
5. Explain why in late November or early Februa n sight.	ry this type of fog can sometimes last for days with no relief
n signit.	
——————————————————————————————————————	
7. What part of Canada experiences the greate:	st number of fornadoes?
8. In normal years, the coastlines of Ecuador, Po grounds on the planet. This all changes during ye the fishing to abruptly end to where fishermen	eru and Chile in South America are among the richest fishing ears when a strong El Niño pattern develops. What causes can barely feed their families?
<u> </u>	
9. How does El Niño impact the great migration kilometres away?	s of zebras, gazelles, and wildebeest in Africa, over 12,000
10. During a strong El Niño, the southwestern a more rain than average. Rain that comes in the problems in desert regions. Explain why.	desert regions of the United States can receive many times form of torrential downpours at times can cause serious

Unit	3:	Weather	and	Climate
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Topic: Terminology

Name	
Mullie	

Fill in the blanks choosing the correct term from the box below.

doldrums leeward ozone rain shadow	depression greenhouse stratosphere isobars	anemometer orographic cumulonimbus saturated nimbostratus	typhoon insolation aspect windward	
altitude cumulus jet stream evaporation polar front conduction	storm surge absolute humidity troposphere anticyclone water vapour Coriolis Effect	land breeze sea breeze barometer thermometer meteorologist	albedo dew point cyclone air mass cirrus dew	

2. An example of a microclimate		
3. A high cloud consisting of ice crystals. This cloud indicates an a	pproaching warm front.	
4. Area of calm found along the equatorial low pressure belt.		
5. These lines join areas of equal atmospheric pressure		
6. The dry side of a mountain range.		
7 is a high pressure centre.		
8. This cloud is the rainmaker along a warm front.		
9. Air that has reached 100% relative humidity is	······································	
10. Name for a hurricane in the China Sea.	<u>.</u>	
11. This instrument measures atmospheric pressure.		
12. Cause of much flooding in a hurricane.		
13. Part of the atmosphere which contains the ozone layer.		
14. A low pressure centre may be referred to as a	or a	
15. Precipitation created when air is forced to climb over a mount	ain barrier	
16. The amount of water vapour present in a body of air.		
17. Excessive heating of land along the ocean shore during summe	r months results in a	

Unit 3: Weather and Climate

Topic: Terminology	Name
19. A white puffy cloud that may have a	dark flat base.
20. Condensed water vapour is called	
21. This instrument measures wind speed	
·	nat flows west to east
23. Incoming solar radiation from the su	
24. The gaseous form of water	
	olar radiation absorbed or reflected by a surface.
26. The process of heat transfer from a	a warm surface to a cooler one is called
27. Air that has 100% relative humidity	has reached
28. The rainy side of mountain ranges.	
29. A vertical cloud that may produce h	eavy localized rain, hail, thunder and lightning.
30. The leading edge of cold arctic air i	s the
31. This instrument measures air tempe	rature.
32. This gas absorbs large amounts of h	narmful incoming ultraviolet radiation.
33 refers to the c	compass direction that a slope faces.
34. During summer months along ocean	shores, the land cools rapidly as the sun sets. During the night the air
	over the land and this temperature difference results in a
35. Can be thought of as the first step	in the hydrologic cycle.
36. A scientist who deals with weather	forecasting.
37. Curving of global winds to the right	in the northern hemisphere and to the left in the southern
hemisphere is caused by	
38. As increas	ses, air pressure and temperature decrease.
39 Term referring to the dryness of 1	eeward mountain slopes.