Topic: Air masses and global winds (A
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1. The leading edge of an advancing air mass is called a \_\_\_\_\_

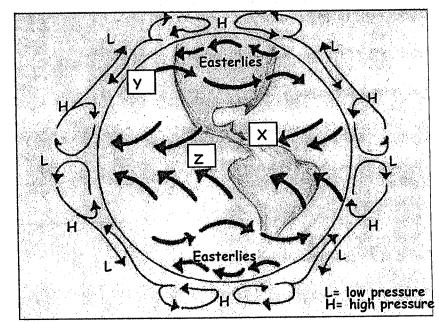
2. Name the air mass which is responsible for bringing cool, moist, and unstable conditions to British Columbia

much of the year.

3. Winds blowing to the equator at location X are called

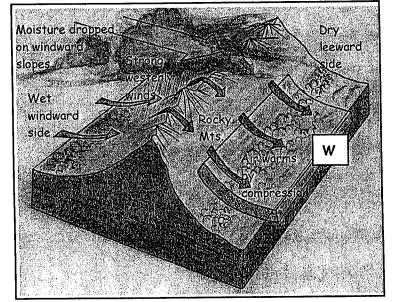
4. Winds blowing from the Pacific Ocean across the BC coast at location Y are called

5. Give the name of the equatorial region at Z in which winds are generally calm.



6. Name the wind at location W which brings cities such as Calgary, Alberta periodic warming in winter.

7. Surface winds blow from an area of \_\_\_\_\_ pressure to an area of \_\_\_\_\_ pressure.



## Unit 3: Weather and Climate Quiz

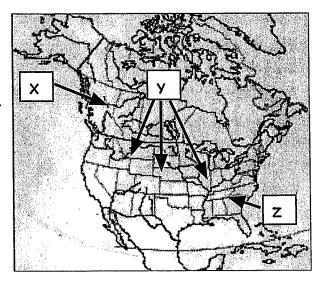
Topic: Air masses and global winds (B)

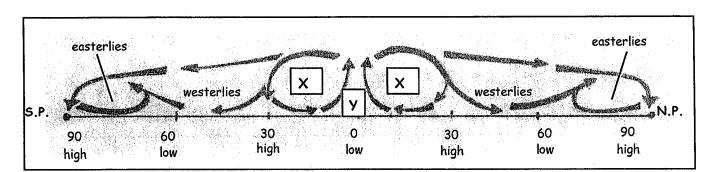
Name		
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- 1. The air mass at X which greatly influences the weather along the west coast of BC is called
- 2. Name the air mass at Y which originates in high latitudes. It is cold, stable, and dry as it flows south through the interior of North

America.

3. What air mass influences the weather at location Z?

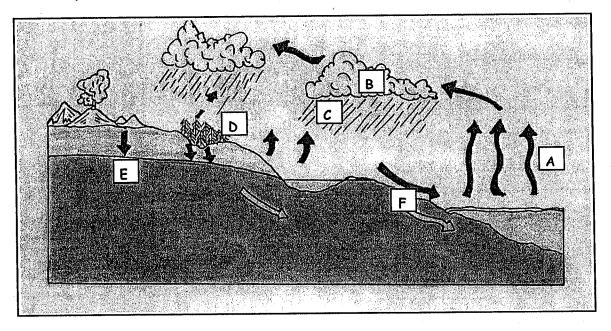




- 4. Name the winds blowing to the equator at location X on the above diagram.
- 5. Name the area at  $\boldsymbol{Y}$  in which winds are calm throughout the year.
- 6. The leading edge of a moving air mass is known as a \_\_\_\_\_
- 7. Define occluded front.

Topic: Water Cycle (A)

Name	



Refer to the diagram when answering question 1.

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D				
E	·····			
F		 		
fine transpira	tion.			
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## Unit 3: Weather and Climate

Topic: Atmosphere & Air masses	Name
1. Name the turbulent layer of the atmosphere that conta	ins clouds, wind, precipitation.
2. In general, as altitude increases, air temperature	and air pressure
However, above 90 kilometres, in the layer called the	, un Temperara
3. State the importance of the ozone layer.	
4. In which layer of the atmosphere is the ozone layer for	und?
5. The Earth's gaseous atmosphere is 78%	and 21%
6. What does a 'greenhouse gas' do? Name 3 greenhouse g	
7. Define insolation.	
8. How is the atmosphere heated?	
9. What are air masses?	
An air mass that was formed over land is called	If it formed over water, it
10. Why are stable air masses a problem in urban areas?	
11. What is a front?	
12 Which is beguing warm air on cold air?	



3. In what latitude would you find continuous low pressure?	
n what latitude would you find continuous high pressure?	
4. In general, what type of weather is associated with low pressure?	
Vhat type of weather do we associate with high pressure?	
5. Name the air mass that brings the Pacific West Coast its wet, winter weather.	
6. Why does the Continental Polar air mass from the north seldom move over the coastal regio Columbia but often advances as far south as Florida?	ns of British