	Period:	Weather The Physical Setting: Earth Science
	Lab Activity: Air Masse	es and Fronts
INTROD	UCTION:	
Aı lik	n air mass is characterized by the weather variables to be air masses collide a front is established and based catterns will be created.	
m	leteorologist follow and track air masses very carefull leteorologist look to see where different air masses w cations weather.	
OBJECT T	TIVE: To see where air masses originate as well as how diffe	erent air masses act when they collide.
VOCABL	JLARY:	
Δ	nir Mass -	
S	Source Region -	
C	Cold Front -	
V	Varm Front -	
S	Stationary Front -	
C	Occluded Front -	

### PROCEDURE A:

- 1. Complete the chart below by filling in the appropriate air mass symbol.
- 2. On the Source Regions Map below, fill in the source regions with the correct air mass symbol.

Source Region	Air Mass Symbol
Continental Arctic	
Continental Polar	
Continental Tropical	
Maritime Tropical	
Maritime Polar	



#### PROCEDURE B:

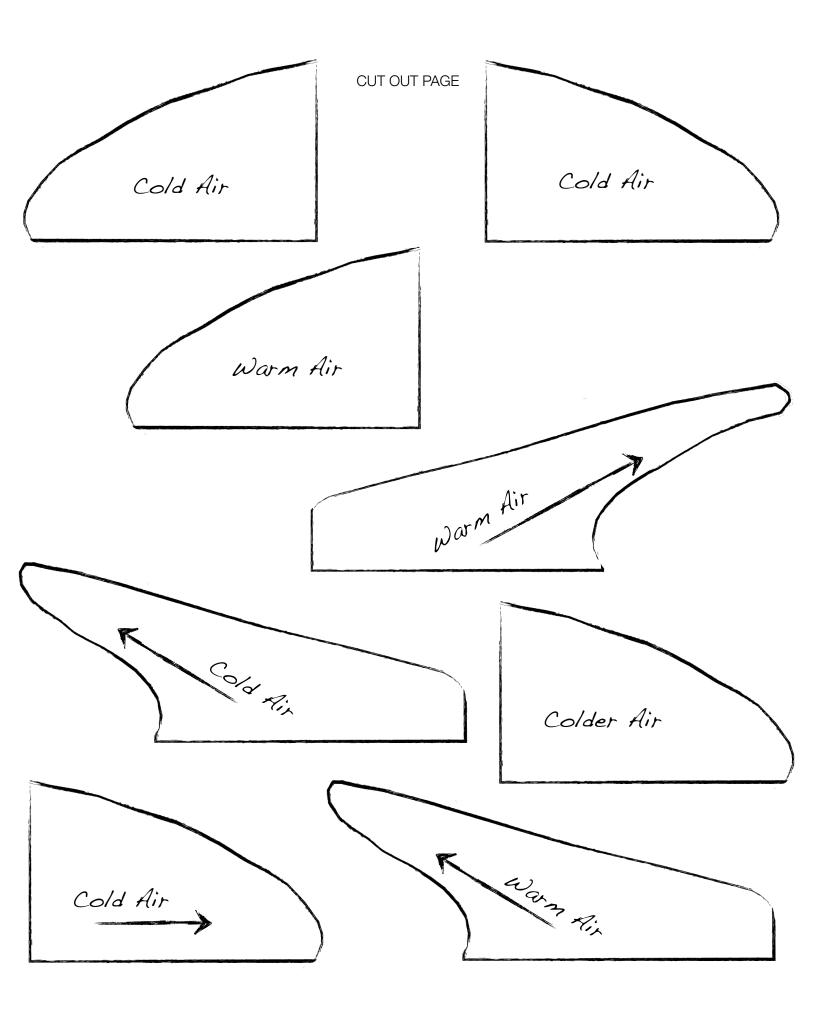
- 1. On the cut out page in the lab color the cold air masses light blue, the warm air masses red, and the colder air mass dark blue.
- 2. Cut out the air mass pieces and construct a profile of how the unlike air masses appear. Glue or tape down the piece once you are sure of front.
- 3. In the "Symbol" box fill in the appropriate air mass symbol.
- 4. In the "What Happens" box give a brief description of the interaction at that frontal zone.

Cold Front Profile		
Symbol:	What Happens:	

Warm Front Profile		
Symbol:	What Happens:	
	Stationary Front Profile	
Symbol:	What Happens:	
	<u> </u>	

Occluded Front Profile			
Symbol:	What Happens:		
DISCUSSION QUESTIONS:			
What two characteristics are	e used to describe an air mass?		
2. A mT air mass would most likely contain what type of temperature and moisture characteristics?			
3. Which symbol would be use	ed to identify an air mass originating in central Canada?		

4.	How does density play a part in determining how unlike air masses react?
5.	With respect to a cold front, where does precipitation occur?
6.	With respect to a warm front, where does precipitation occur?
CONC	LUSION: Compare the following conditions on either side of the cold front.
	Temperature:
	Pressure:
	Rainfall:



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