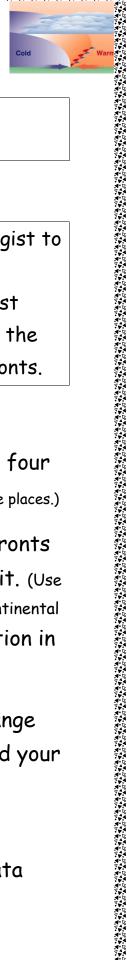


# YOU ARE A METEROLOGIST!



 $\star$ A meteorologist is a scientist who studies the atmosphere to forecast weather in a given area.

### **ASSIGNMENT:**

You have been hired by the Weather Channel as a meteorologist to forecast weather in the United States. Since the Weather Channel provides forecasts for all over the country, your first assignment with them is to forecast four different areas of the United States using your knowledge about air masses and fronts.

## TASK:

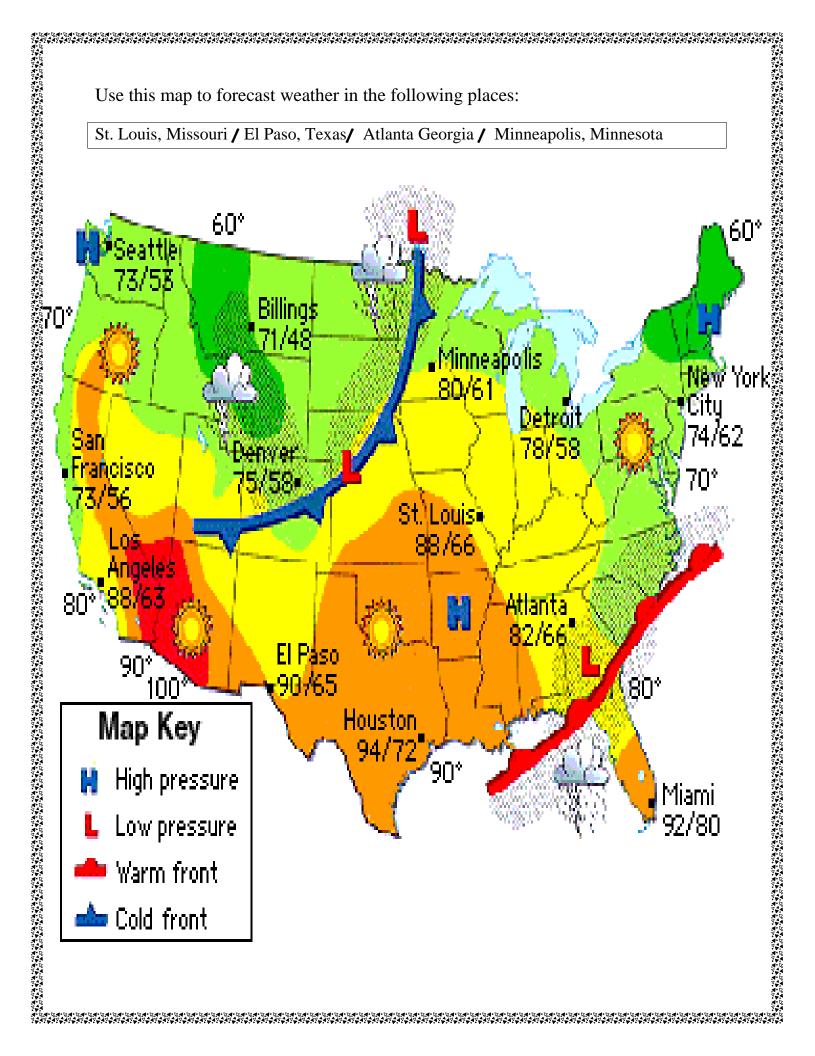
1.) Examine the map of the United States and locate the four cities named on your data table. (Use an atlas to help you find these places.)

2.) After locating the cities, identify and describe the fronts heading towards each city and the air mass that follows it. (Use your reference sheet to help recall types of air mass: continental polar, continental tropical, maritime polar, or maritime tropical.) Record this information in the data table.

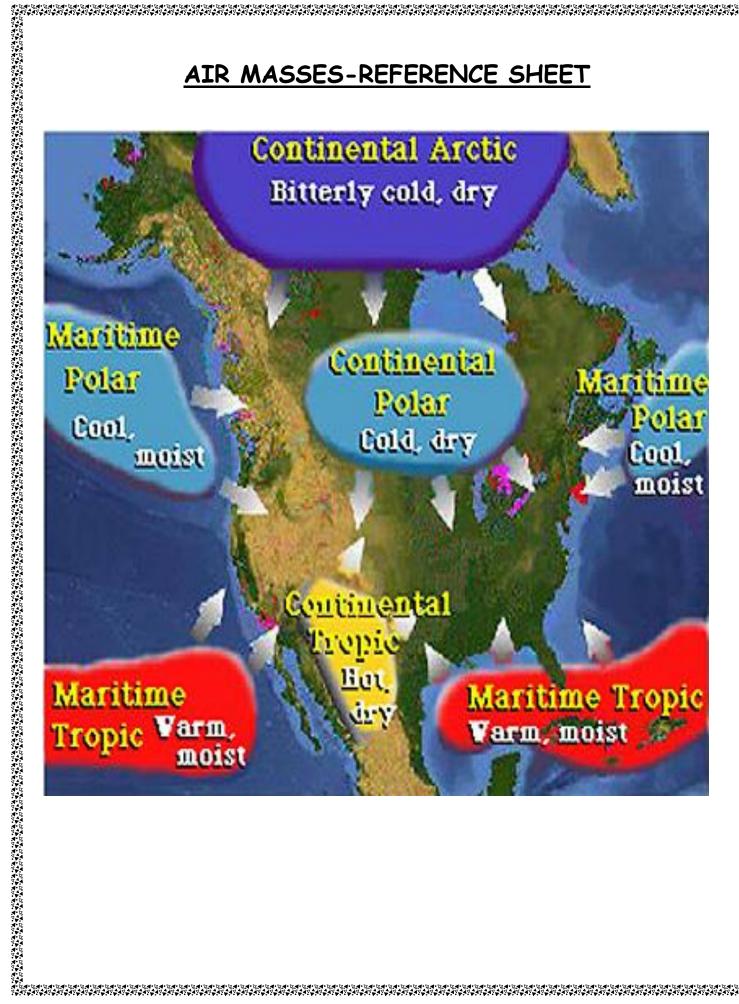
3.) For each city, predict how the incoming front will change the weather (temperature, air pressure, storms in that area.) Record your thinking in the data table.

4.) Select one city and write a paragraph about the anticipated weather for that area. Be sure to include data from the table to explain your thinking and forecast.

0/////				
CITY, STATE N THE UNITED	FRONT (Warm Front	AIR MASS How do you know?	EXPLAIN HOW WE	THIS FRONT MIGHT CHANGE THE ATHER AT THIS AREA?
STATES	or Cold Front)	(What's your evidence from the map?)	TEMPERATURE	POSSIBLE WEATHER
St. Louis,				
Missouri				
El Paso, Texas				
Atlanta, Georgia				
Minneapolis Minnesota				E UNITED STATES
<u>★MAKE</u>	AN INFERE	ENCE: Locate Boston, i	Massachusetts.	Predict what kind of
weather		iai way. What is your	evidence from	The map?



## AIR MASSES-REFERENCE SHEET



### WRITE YOUR FORECAST

Select one city from your data table and write a paragraph about the anticipated weather for that area. Be sure to apply what you have learned about air masses and fronts by using data you recorded in the table and key terms from your air mass reference sheet to explain your thinking and justify your forecast.


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<u>RUBRIC:</u>					
3-responses demonstrate under	standing and	l are consistent	ly thoughtful, a	accurate, and	complete
2-repsonses demonstrate under	standing, bu	t contain errors	s or lack details		
1-reponses demonstrate limited	l understand	ing			
0-no understanding is demonst	rated				
Student Name:	3	2	1	0	N//
Assessment:					
Date:					
Scientific Ideas					
Student demonstrates a					
thorough understanding of scientific concepts and ideas.					
Terminology and Language					
Student uses scientific terminology and language					
appropriately and correctly.					
Application					
A student effectively and					
accurately applies scientific knowledge, skills, and					
methods to new situations.					