

## WEATHER Study Guide

1. Fill in the chart below on air masses.

Type of Air Mass	Where it starts	Weather associated with the air mass
Continental Polar		
Continental Tropical		
Maritime Polar		
Maritime Tropical		

2. Fill in the chart below.

Type of Front	Symbol	Weather associated with front
Cold Front		
Warm Front		
Stationary Front		

3. Types of Air Pressure:                      SYMBOL                      WEATHER ASSOCIATED

High Pressure		
Low Pressure		

4. Fill in the chart below.

<b>Cloud Name and Picture</b>	<b>Description</b>	<b>Weather associated with cloud</b>
Cumulus		
Stratus		
Cirrus		
Cumulonimbus		

5. Fill in the chart below.

<b>Layer Name</b>	<b>Important information about the layers</b>
Troposphere	
Stratosphere	
Mesosphere	
Thermosphere	

6.



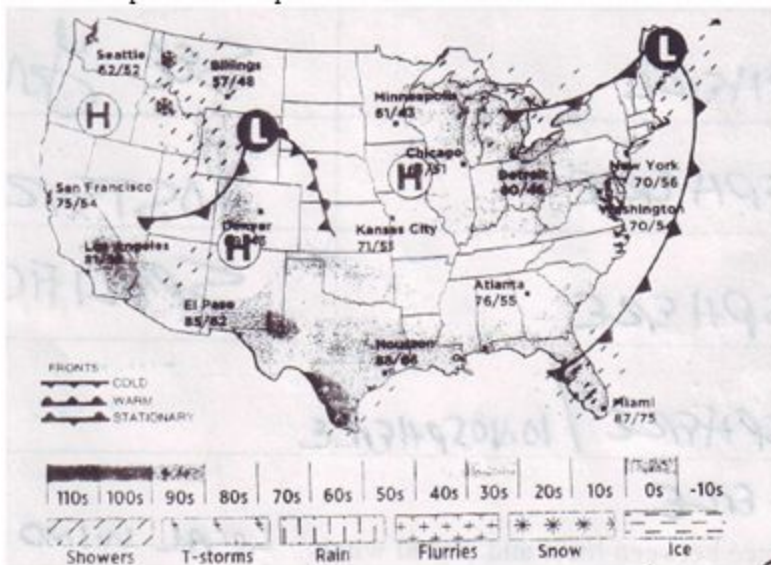
- Month is June
- Draw a cold front from Northern Ohio to Tennessee, moving East, include the appropriate weather symbols
- There is a High Pressure system over Illinois
- There is a stationary front from Oregon to Arizona moving Northeast, include appropriate weather symbols

What type of weather will be in Northern Ohio to Tennessee?

What type of weather will be over Illinois?

What type of weather will be Oregon to Arizona?

7. Use the map to answer the questions below.



- Describe the weather in Denver.
- Describe what the weather will be like in two days for Miami.
- Describe what the weather will be like in two days for New York City.

8. What is the difference between weather and climate?

9. Fill in the chart below

Type of Heat Energy	Relationship it has to weather

10. **Density  $\text{g/cm}^3 = \text{Mass g} / \text{Volume cm}^3$**

**Mass g = Density  $\text{g/cm}^3 \times \text{Volume cm}^3$**

**Volume  $\text{cm}^3 = \text{Mass g} / \text{Density g/cm}^3$**

**Land Breeze and Sea Breeze:**

11. What happens during a land/sea breeze? Use the pictures below to help you explain what is happening.



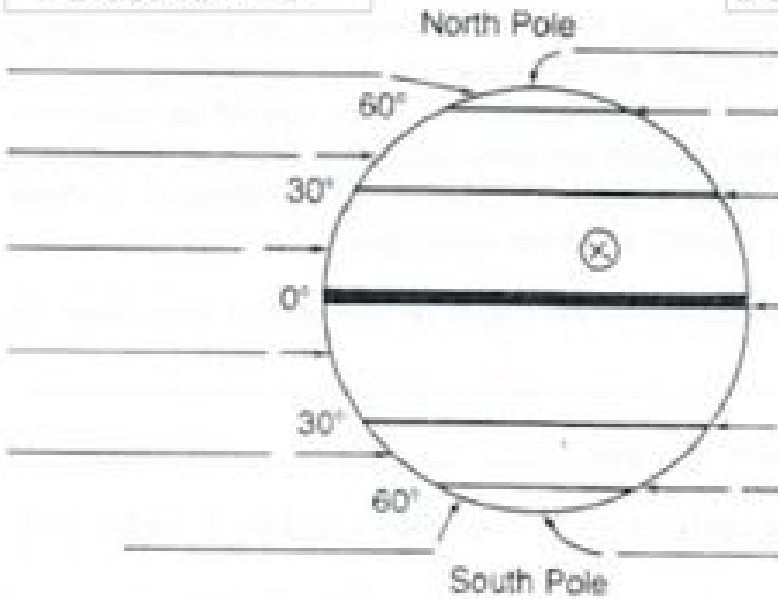
12. What are some factors that contribute to the unequal heating of the earth?

13. Label the location of global winds on the diagram below.

Name: \_\_\_\_\_

1. LABEL CLIMATE

2. LABEL WIND



3. DRAW ARROWS SHOWING WIND

14. Severe weather. Fill out the chart below.

	How does it form?	How does it affect us?	What are the safety precautions?
Thunderstorms			
Hurricanes			
Tornadoes			
Blizzards			