

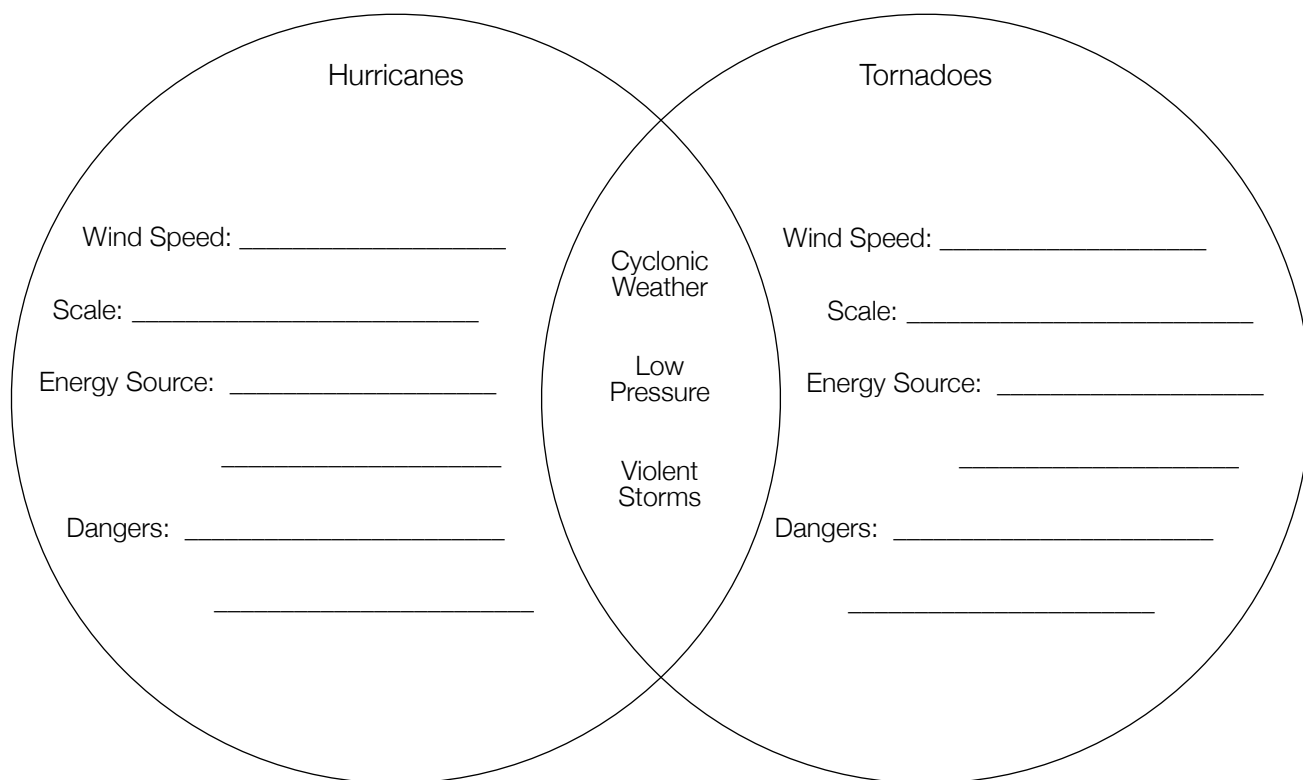
Name: _____

Date: _____ Period: _____

Supplemental: Annotating Class Notes

Directions: Using the Class Notes: Weather, complete the following activity.

I. Cyclonic Weather



Directions: Draw arrows around both the high pressure and low pressure.

H

L

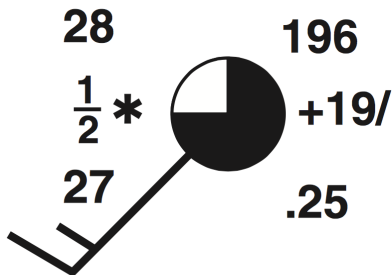
Supplemental: Annotating Class Notes

II. Weather Instruments

Directions: Match the term with the correct definition.

- | | |
|--------------------------|--|
| _____ Thermometer | a. instrument used to measure dewpoint & relative humidity |
| _____ Anemometer | b. instrument used to measure precipitation amounts |
| _____ Weather Vane | c. instrument used to measure wind speed |
| _____ Barometer | d. instrument used to measure wind direction |
| _____ Rain Gauge | e. instrument used to measure temperature |
| _____ Sling Psychrometer | f. instrument used to measure air pressure |

Directions: Fill in the chart using the station model below. Be sure to use proper units.



| Weather Variables | Weather Values |
|-----------------------|----------------|
| Present Weather | |
| Air Pressure | |
| Barometric Trend | |
| Temperature | |
| Dewpoint | |
| Wind Speed | |
| Visibility | |
| Wind Direction | |
| Precipitation | |
| Amount of Cloud Cover | |

Supplemental: Annotating Class Notes

III. Weather Variables

Directions: Fill in the chart for each layer of the atmosphere describing if there is an increase or decrease in temperature, pressure and water vapor concentration.

| Layer of the Atmosphere | Temperature | Pressure | Water Vapor Concentration |
|-------------------------|-------------|----------|---------------------------|
| Troposphere | | | |
| Stratosphere | | | |
| Mesosphere | | | |
| Thermosphere | | | |

- In what layer of the atmosphere does weather take place? _____
Why _____

Directions: Fill in the following definitions.

- Wind - _____
- _____
Wind blows from areas of _____ pressure to areas of _____ pressure
- Land Breeze - _____
- _____
- Sea Breeze - _____
- _____
- Cloud Formation
 - Air is warmed from Sun heated surfaces becoming less dense and _____
 - As it rises it expands and decreases in _____ and _____
 - Water vapor in the air then _____ as the air is cooled to the dewpoint

Supplemental: Annotating Class Notes

Directions: Fill in the “secret formula” to build a cloud below.

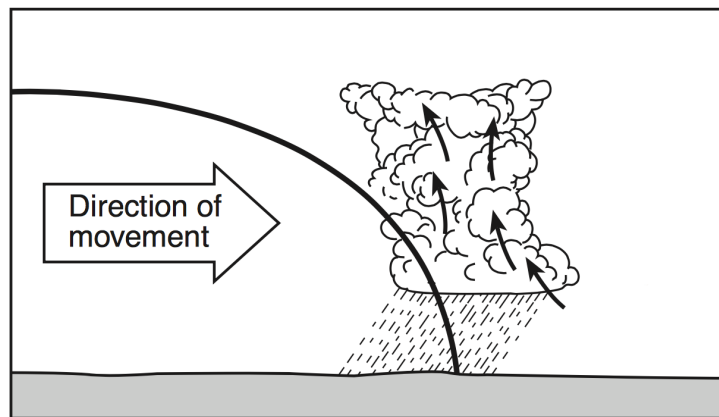
| | |
|---|--|
| R | |
| E | |
| C | |
| C | |

III. Air Masses and Front

- Air Mass - _____

- Source Region - _____

- cA = _____
- mT = _____
- cP = _____
- mP = _____



1. Label the “Cold Air” and “Warm Air” on the diagram
2. Name of the Front - _____
3. Associated Weather - _____
4. Draw the Front Symbol below.