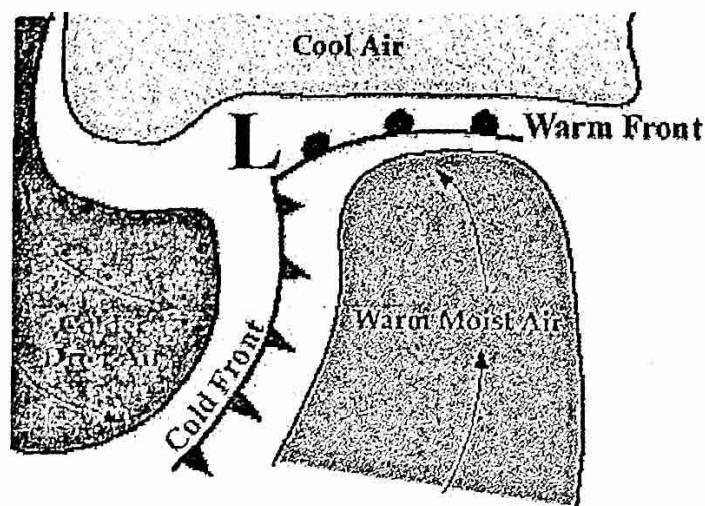


Name _____

Meteorology Study Guide

1. How air moves near high and low pressure systems both horizontally (wind patterns), and vertically (rising/sinking).
2. Types of weather associated with high and low pressure systems.
3. The Relationship between isobar spacing and wind velocity.
4. Create and interpret station models.
5. Describe how and why clouds form as a result of rising air.
6. Describe the orographic (mountain) effect on precipitation.
7. Draw isobars and isotherms on a weather map.
8. Use page 12 of the ESRT to determine relative humidity and dewpoint.
9. Why evaporating water lowers the temperature on a wet-bulb thermometer.
10. The primary cause for the horizontal movement of air (wind).
11. Identify types of fronts on a weather map and in a cross-sectional diagram.
12. Identify direction of front movement on a weather map.
13. Describe the characteristics of the 5 air masses listed on page 13 of the ESRT.
14. Convert between temperature and pressure scales on page 13 of the ESRT.
15. The relationship between the relative humidity (closeness of the temperature and dewpoint) and the probability of precipitation.
16. The role surface area plays in evaporating water.
17. Typical storm tracks of low-pressure systems in the northern hemisphere. (Global wind patterns on page 14 of the ESRT).
18. The relationship between temperature and pressure (of air).
19. The relationship between density and pressure (of air).
20. How the difference between the temperature and the dewpoint temperature effect relative humidity.
21. The surface wind pattern around a hurricane.
22. Indicate where precipitation is likely occurring on a weather map in relation to pressure systems and fronts.
23. Basic safety measures taken during severe weather (tornadoes, hurricanes thunderstorms).
24. Use page 14 of the ESRT to identify characteristics of the atmospheric layers.
25. The relationship between air masses and their source regions.

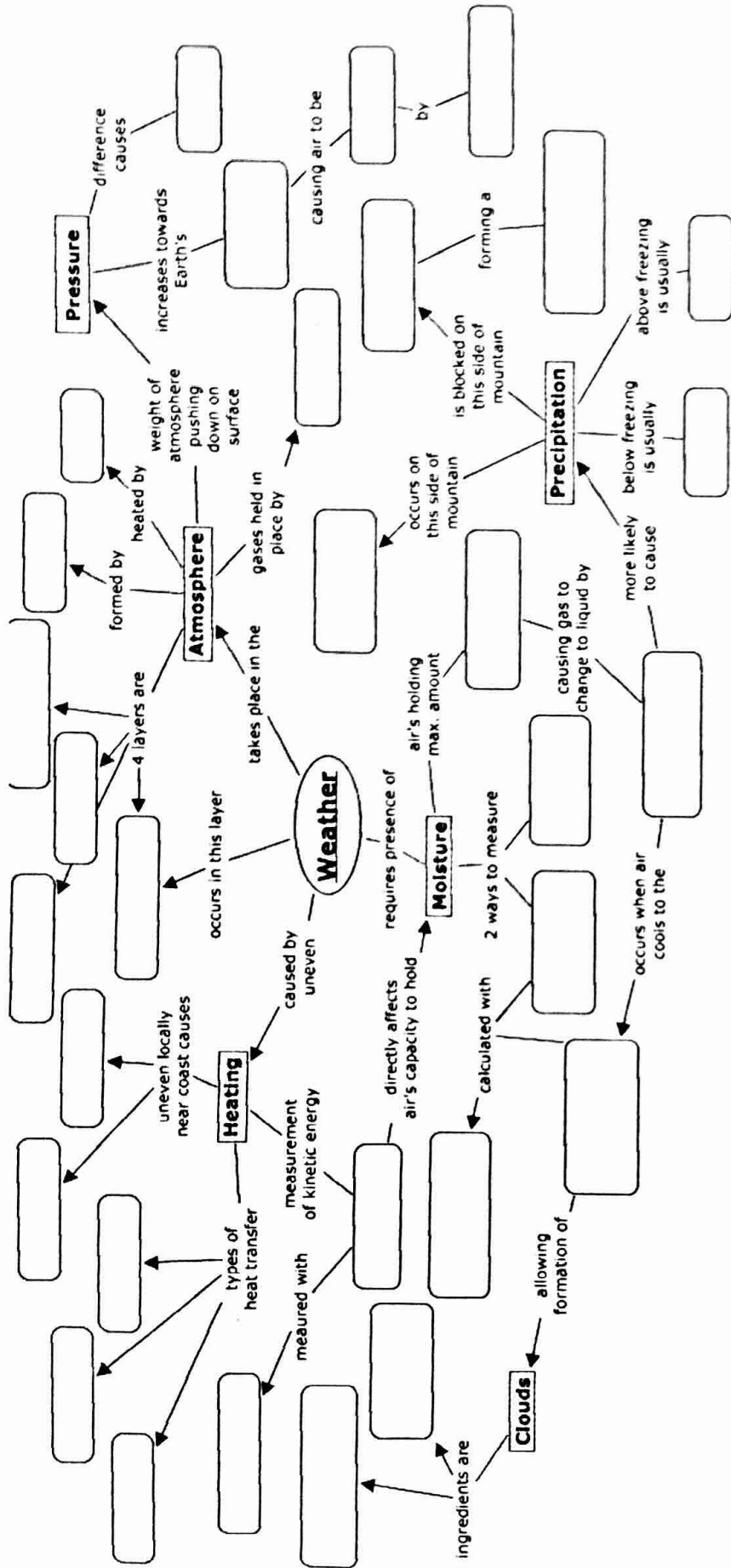


Name: _____

Earth Science

Date: _____

WEATHER REVIEW - CONCEPT MAP!!



Word Bank: (not all words will be used!)

- sea breeze
- outgassing
- Earth
- compression
- evaporation
- saturated
- convection
- stratosphere
- conduction
- radiation
- expansion
- thermosphere
- hydrosphere
- land breeze
- rain
- warm and moist air
- sling psychrometer
- condensation nuclei
- heated
- dew point temperature
- rainshadow desert
- gravity
- Sun
- windward
- relative humidity
- temperature
- cooled
- barometer
- mesosphere
- troposphere
- melting
- surface
- leeward
- specific humidity
- wind
- condensation
- thermometer
- snow