

Name:

Date:

Period:

Forecasting the Weather

Questions:

Notes:

_____ are large bodies of air classified by their _____ (warm or cold) and amount of _____ (wet or dry).

The characteristics of an air mass are the same as those of the area over which it _____.

Frontal Boundaries

- Where air masses _____ – also know as a front.
- 3 kinds of fronts:
 -
 -
 -

Because the air masses do not mix they create _____ where they meet.

Warm Front

- Warm air mass _____ a cooler air mass.
- Shown on a weather map by a _____ line with _____ pointing the direction the warm air is moving.

Cold Front

- A cold air mass is _____ a warmer air mass.
- Shown on a weather map by a _____ line with _____ pointing the direction the cool air is moving.

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Comparing Warm Fronts and Cold Fronts

- Cold fronts move _____ than warm fronts.
- The weather activity in a cold front is often _____ and happens directly at the front.
- Cold fronts have sudden _____ winds high in the air creating turbulence.
- The weather activity in a warm front generally happens _____ the front passes.
- In a warm front the cloud formation is very _____ often creating situations of poor visibility.

Stationary Fronts

- A front that _____ moving or is moving very slowly.
- Shown on a weather map with _____ red semicircles pointing away from the warm air and blue triangles pointing away from the cold air.

Measuring Weather Factors

Temperature -

Air Pressure -

Wind Direction -

Wind Speed -

Cloud Cover -

Precipitation -

Humidity -

Dew Point -

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Water in the Atmosphere

- _____: measure of the amount of _____ stuck between molecules in the air. The air's ability to hold water depends on the air temp
 - The hotter the air, the _____ water the air can hold
- _____: the amount of water vapor (%) present compared to the _____ amount the air can hold
 - If rh is 100% then precipitation is occurring
- _____ - temperature at which _____ occurs
 - If $dpt = \text{actual temperature}$ then precipitation is occurring

Summary: