

Meteorology Study Guide (Chaps 18, 19, and 20)

Vocabulary: (Use your book to find the definitions)

Coriolis Effect
Precipitation
Evaporation
Condensation
Humidity
Relative humidity
Saturated air
Dew point
Orographic lifting
Front
Condensation nuclei
Cirrus
Cumulus
Stratus
Air pressure
Air mass
Front
Warm front
Cold front
Stationary front
Occluded front
Thunderstorm
Tornado
Hurricane

Questions:

1. Current, short-term variations in the atmosphere are referred to as ____.

- a. humidity
- b. lapse rate
- c. **weather**
- d. the ionosphere

2. The Coriolis effect is due to the ____ of Earth.

- a. revolution
- b. **rotation**
- c. shape
- d. density

3. Low-pressure systems are usually associated with ____ weather.

- a. cold and dry
- b. **cloudy and rainy**
- c. sunny and dry
- d. warm and humid

4. Lines on a map that connect points of equal or constant temperatures are called ____.

- a. boundaries
- b. **isotherms**
- c. fronts
- d. station models

5. Lines on a map that connect points of equal or constant pressures are called ____.

- a. boundaries
- b. **isobars**
- c. fronts
- d. station models

6. Areas where isobars are closer together indicate ____.

7. Match each item with the correct type of air mass. (mT, mP, cT, or cP)

- | | |
|--------------------------|-----------------------------|
| a. warm and humid | c. cool and humid |
| maritime tropical | maritime polar |
| b. cold and dry | d. warm and dry |
| continental polar | continental tropical |

8. Match each item with the correct statement below.

- | | |
|----------------------|----------------------------|
| i. trade winds | iii. prevailing westerlies |
| ii. polar easterlies | iv. jet streams |
-
- a. Systems that lie between the poles and about 60° latitude in both hemispheres
Polar easterlies
 - b. Narrow bands of fast, high-altitude westerly winds
Jet streams
 - c. Winds occurring between 30° north and south latitude and the equator
Prevailing westerlies
 - d. Winds that flow between 30° and 60° north and south latitude
Polar easterlies

9. Would a six-month period with no rain in a place that usually gets plentiful rainfall be considered a weather phenomenon or a climate phenomenon?

10. Describe how a cool, dry air mass can modify into a warm, moist air mass.

Moves over a warm water source. Air takes on the temperature and moist of the surface it lies over.

11. Compare and contrast the characteristics of a high pressure system and a low pressure system.

High pressure = clear conditions; low pressure = rainy conditions

12. Compare and contrast air masses and fronts.

Answer Meteorology Short Study Guide

Elite Aviation Solutions

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Civil Air Patrol United States. Air Force Department,1951 **Hands-On - Earth & Space Science: Weather Gr. 1-5** George Graybill,2017-01-01 This is the chapter slice Weather Gr 1 5 from the full lesson plan Hands On Earth Space Science Inspire your students to gain a deep understanding of our planet earth and beyond with our Hands On Earth Space Science resource for grades 1 5 Combining Science Technology Engineering Art and Math this resource aligns to the STEAM initiatives and Next Generation Science Standards Make your own weather forecast as a group Find out how much rain has fallen by building your own rain gauge Get a glimpse at how wind works by creating your own sand dunes Tell a story by drawing your own rock layer Get into groups to make your own solar cell windmill or water wheel Track the movement of the Moon with your own Lunar Calendar Each concept is paired with hands on experiments and comprehension activities to ensure your students are engaged and fully understand the concepts Reading passages graphic organizers before you read and assessment activities are included **Meteorological Observer** United States. Army. Signal Corps,1927

Environmental Science Michael L. McKinney,Robert M. Schoch,2003 This edition provides a comprehensive overview and synthesis of current environmental issues and problems **Flying Magazine** ,1985-11 **Mapping Skills with Google Earth: Weather Maps** Paul Bramley,2013-10-01 This is the chapter slice Weather Maps from the full lesson plan Mapping Skills with Google Earth Move on from a basic understanding of map reading to a more complex one with our engaging resource designed for students in grades six to eight Students will further develop their ability to read and understand maps by looking at weather and population maps Then students will engage in mapping their country in detail including states provinces capitals cultural and geographical features Finally students will move on to mapping their continent and then the world Comprised of reading passages map activities crossword word search and comprehension quiz our resource incorporates curriculum based lessons with Google Earth so students can further understand the complexities of map reading with the help of visual and interactive technology All of our content meets the Common Core State Standards and are written to Bloom s Taxonomy **Research Progress and Plans. of the U.S. Weather Bureau** United States. Weather Bureau,1961 Research Progress and Plan of the U.S. Weather Bureau United States. Weather Bureau,1960 *Flying Magazine* ,1961-11 **Monthly Weather Review** ,1917

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