

# Meteorology Unit Study Guide

What is wind?

↳ Air moving due to uneven heating of Earth by solar radiation

What is convection?

↳ Air that warms from below expands and then rises, but cooling and then contracts and sinks

What is the equator always warmer than the poles?

↳ Greater amount of solar radiation is received at the equator than at the poles

What is the air pressure like at the equator compared to the poles?

↳ Higher

What are the major wind belts? What are the low pressure belts? What are the high pressure belts?

↳ Equatorial low pressure belt, Subtropical high pressure belts, Subtropical low pressure belts, Subpolar high pressure belts, Subpolar low pressure belts, Subarctic high pressure belts, Subarctic low pressure belts, Subantarctic high pressure belts, Subantarctic low pressure belts, Subtropical high pressure belts, Subtropical low pressure belts, Subpolar high pressure belts, Subpolar low pressure belts, Subarctic high pressure belts, Subarctic low pressure belts, Subantarctic high pressure belts, Subantarctic low pressure belts

What is the Coriolis effect? How does it affect wind direction?

↳ Deflects the wind to the right in the Northern Hemisphere and to the left in the Southern Hemisphere. It is caused by the Earth's rotation.

What is the difference between wind speed and wind direction?

↳ Wind speed is the rate at which the wind is moving. Wind direction is the direction from which the wind is blowing.

What is the difference between wind speed and wind velocity?

↳ Wind velocity is a vector quantity.

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What are the major wind belts? What are the low pressure belts? What are the high pressure belts?

- Equatorial low pressure belt
- Subtropical high pressure belts
- Subtropical low pressure belts
- Subpolar high pressure belts
- Subpolar low pressure belts
- Subarctic high pressure belts
- Subarctic low pressure belts
- Subantarctic high pressure belts
- Subantarctic low pressure belts

What is the difference between wind speed and wind direction?

- Wind speed is the rate at which the wind is moving.
- Wind direction is the direction from which the wind is blowing.
- Wind velocity is a vector quantity.

# Meteorology Study Guide Answer Key

**Judd E. Hollander**



## **Meteorology Study Guide Answer Key:**

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*Ie-Metereology Today* C. Donald Ahrens,2002-08      **Foundations of Earth Science Study Guide** Edward J. Tarbuck,2001-02-15 Includes Learning Objectives Chapter Review Chapter Outline Vocabulary Review Key Terms Comprehensive Review and Practice Tests      **Resources for Learning** Roderick McDaniel,1971

**Manual of Meteorology: Meteorological calculus: pressure and wind** Napier Shaw,1942      *Teacher's Manual and Resource Guide for Exploring the Sciences* Herbert Drapkin,1964      **Prentice Hall Exploring Earth Science** ,1997

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*Christian Home Educators' Curriculum Manual* Cathy Duffy,1995-07 Cathy Duffy draws upon her many years of home education experience both in teaching and researching curriculum to bring us the most thorough and useful book available on teaching teenagers at home

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