



# knowledge quiz

## Weather & Climate

Name \_\_\_\_\_

1. What is the difference between climate and weather?
  - A. There is no difference.
  - B. Climate refers to weather conditions for a region over a period of time.**
  - C. Weather refers to climatic conditions for a region over a period of time.
  - D. Climate is the location of the weather conditions at a particular time.
2. Earth is not the only planet that exhibits weather conditions. What is required for a planet to support weather systems?
  - A. a surface
  - B. a moon
  - C. an atmosphere**
  - D. existing life
3. If it is winter in the Northern Hemisphere, what season is it in the Southern Hemisphere?
  - A. spring
  - B. summer**
  - C. fall
  - D. winter
4. Why is it common to see snow on very high mountains in the tropics?
  - A. The circulation of the air blows the cold upward.
  - B. It occasionally snows in the tropics.
  - C. The higher the altitude, the colder the temperature.**
  - D. It is colder on the shady side of the mountains.
5. How does atmospheric circulation influence climate?
  - A. by producing winds that distribute heat and moisture**
  - B. by producing ocean currents that cause tornadoes
  - C. by producing tornadoes that cause ocean currents
  - D. by distributing air that causes wind



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6. From what do clouds form?
  - A. moisture released from wind
  - B. air pollution
  - C. water that has evaporated from the earth
  - D. moisture released from rivers
  
7. What happens to the water vapor in the air when the air temperature cools?
  - A. It evaporates.
  - B. Water droplets form.
  - C. It dissipates into the air.
  - D. It turns into a gas.
  
8. Forecasters use clouds to help predict the weather. Which of the following may be a reason for this?
  - A. Certain cloud types appear after storms.
  - B. There is no other way to predict weather.
  - C. Certain cloud types often appear before storms.
  - D. Certain storms come from certain clouds.
  
9. What powerful storm can kill more people and destroy more property than any other natural disaster?
  - A. thunderstorm
  - B. earthquake
  - C. lightning
  - D. hurricane
  
10. What do scientists call the circulation of water through the Earth's crust, oceans, and atmosphere?
  - A. condensation
  - B. evaporation
  - C. the water cycle
  - D. precipitation