

Content Practice A

Chapter 14.1 Review

LESSON 1

Climates of Earth

Directions: On the line before each description, write the letter of the term that matches it correctly. Each term is used only once.

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| <p>_____ 1. the long-term average weather conditions that occur in a particular region</p> <p>_____ 2. causes the amount of solar energy per unit of Earth's surface to vary</p> <p>_____ 3. causes the climate on a tall mountain to be cold and snowy</p> <p>_____ 4. an area of low rainfall on the downward slope of a mountain</p> <p>_____ 5. the amount of thermal energy needed to raise the temperature of 1 kg of a material by 1°C</p> <p>_____ 6. has a high specific heat, which causes the climates along coastlines to differ from climates in the middle of a continent</p> <p>_____ 7. a localized climate that is different from the climate of the larger area surrounding it</p> | <p>A. latitude</p> <p>B. altitude</p> <p>C. specific heat</p> <p>D. microclimate</p> <p>E. climate</p> <p>F. rain shadow</p> <p>G. water</p> |
|--|--|

Directions: On the line before each statement, write T if the statement is true or F if the statement is false.

- _____ 8. Ocean currents can modify climate.
- _____ 9. Climate is classified based on precipitation, temperature, and native vegetation.

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Content Practice B**LESSON 1****Climates of Earth**

Directions: On each line, write the term from the word bank that correctly completes each sentence. Some terms might be used more than once or not at all.

altitude **climate** **latitude** **localized** **ocean current**
precipitation **rain shadow** **solar energy** **specific heat** **weather**

1. Climate is the long-term average _____ conditions that occur in a particular region.
2. The amount of _____ per unit of Earth's surface is related to latitude.
3. A tall mountain has a cold, snowy climate because of its _____.
4. An area of low rainfall on the downward slope of a mountain is called a(n) _____.
5. The amount of thermal energy needed to raise the temperature of 1 kg of a material by 1°C is the material's _____.
6. The climates along coastlines differ from those in the middle of a continent because water has a high _____.
7. The Gulf Stream is a warm _____ that modifies climate.
8. A microclimate is a(n) _____ climate that is different from the climate of the larger area surrounding it.
9. Climate is classified based on _____, temperature, and native vegetation.

Key Concept Builder 

LESSON 1

Climates of Earth

Key Concept How are climates classified?

Directions: Respond to each statement on the lines provided.

1. List the three factors Wladimir Köppen used to classify the world's climates in 1918.

2. Give an example that explains the connection between native vegetation and climate.

Directions: Complete this climate chart by writing the temperature and amount of precipitation for each climate type. The first one has been completed for you.

Earth's Climates		
Climate Type	Temperatures	Amount of Precipitation
Tropical climate	warm year-round	high
Mild climate	3.	4.
Dry climate	5.	6.
Continental climate	7.	8.
Polar climate	9.	10.

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Lesson Quiz A**LESSON 1****Climates of Earth****Multiple Choice**

Directions: *On the line before each question, write the letter of the correct answer.*

- _____ 1. Which description identifies a tropical climate?
 A. much precipitation, warm all year long
 B. little precipitation, hot summers and cold winters
 C. moderate precipitation, cool summers and winters
- _____ 2. Two cities are located at the same latitude. Which statement is true?
 A. The cities would have exactly the same climate.
 B. The city closer to the ocean would be colder in winter.
 C. The city at the lower altitude would be warmer year-round.
- _____ 3. Which place is **NOT** a microclimate?
 A. a forest
 B. a desert
 C. a large city
- _____ 4. Which climate has warm summers, cold winters, and moderate rain and snow?
 A. a mild climate
 B. a polar climate
 C. a continental climate

Matching

Directions: *On the line before each definition, write the letter of the term that matches it correctly. Each term is used only once.*

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|--|-----------------|
| _____ 5. daily changes in atmospheric conditions | A. altitude |
| _____ 6. elevation above sea level | B. climate |
| _____ 7. dry area on the side of a mountain | C. latitude |
| _____ 8. long-term, average weather of an area | D. microclimate |
| _____ 9. distance north or south of the equator | E. rain shadow |
| _____ 10. a localized climate | F. weather |