

Name:

Class:

Date:

Lesson 14.4: Influence of Climate on Agriculture

Lesson Review

Carefully study the lesson and then answer the following questions.

1. What is climate? (14.4.1)

Answer:

2. List four factors that can influence climate. (14.4.2)

Answer:

3. What zone of latitude is most directly hit by the sun's rays? (14.4.2)

- A. Polar zone
- B. Temperate zone
- C. Tropical zone
- D. Latitude

Answer:

4. What zone is found higher than 66.5° in the northern hemisphere? (14.4.2)

- A. Polar zone
- B. Temperate zone
- C. Tropical zone
- D. Latitude

Answer:

5. The areas between 25.5° and 66.5° in the northern and southern hemispheres are the _____. (14.4.2)

- A. polar zones
- B. temperate zones

- C. tropical zones
- D. latitudes

Answer:

6. *True or False?* Uneven solar heating causes global weather patterns. (14.4.2)

Answer:

7. *True or False?* The flow of hot, humid air is called a front. (14.4.2)

Answer:

8. *True or False?* Temperature and humidity typically change with weather fronts. (14.4.2)

Answer:

9. How fast does the air typically move in a jet stream? (14.4.2)

- A. 80 mph
- B. 140 mph
- C. 205 mph
- D. 275 mph

Answer:

10. How much does the average temperature drop for every 1,000' increase in elevation? (14.4.2)

- A. 2.8°F
- B. 3.6°F
- C. 4.8°F
- D. 5.4°F

Answer:

11. Which side of the Rockies and Appalachian Mountains receives more precipitation? (14.4.2)

- A. Northern
- B. Western
- C. Southern
- D. Eastern

Answer:

12. What types of weather phenomena occur in North America due to its unique terrain? (14.4.2)

Answer:

13. *True or False?* Large bodies of water have no bearing on a region's climate. (14.4.2)

Answer:

14. *True or False?* Land near the water is usually cooler than land five to ten miles inland. (14.4.2)

Answer:

15. Explain lake effect snow. (14.4.2)

Answer:

16. *True or False?* The greenhouse effect is the process by which solar energy is trapped in the atmosphere. (14.4.3)

Answer:

17. *True or False?* Trapped solar rays help cool Earth's temperature. (14.4.3)

Answer:

18. *True or False?* Carbon dioxide contributes the most to the greenhouse effect. (14.4.3)

Answer:

19. List three ways today's agriculture is working to be environmentally conscious. (14.4.4)

Answer:

Explain the impact higher temperatures have on each of the following agricultural concerns. (14.4.4)

20. Plant growth

Answer:

21. Plant dehydration

Answer:

22. Pests and disease

Answer:

23. Livestock stress

Answer:

Critical Thinking

1. What do you feel is one of the biggest climate-related challenges facing agriculture? Explain why you feel this is a major concern. (14.4.4)

Answer: