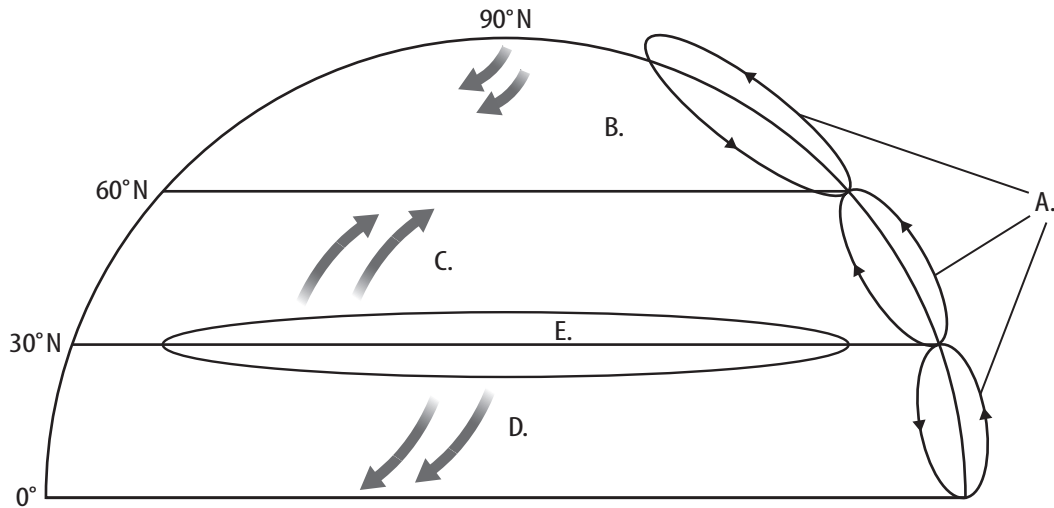


Content Practice A

LESSON 3

Air Currents

Directions: The diagram below shows Earth's northern hemisphere. Use the diagram to answer each question or respond to each statement.



1. What is depicted at A?

2. Which winds are depicted by the arrows marked B? _____

3. Which winds are represented by the arrows marked C? _____

4. Which winds are depicted by the arrows marked D? _____

5. What does the area labeled E represent? _____

Directions: Draw a line to connect related terms in each column.

- | | |
|---------------------------------------|------------------|
| 6. low latitudes | warm air |
| 7. high-speed air current | Earth's rotation |
| 8. cause of Coriolis effect | polar regions |
| 9. high-pressure air | cold air |
| 10. high latitudes | tropics |
| 11. cool night air flowing out to sea | jet stream |
| 12. low-pressure air | land breeze |

Content Practice B

LESSON 3

Air Currents

Directions: Consider the following problem. Write your solution on the lines provided.

- 1. You are adrift in the South Pacific Ocean in a small boat with sails and a gasoline engine. You are near the 30°S latitude about 800 km west of Australia. You are in an area with no wind, so your sails do you no good here. On top of that, you have only enough gasoline to go about 350 km. What is the term for the type of winds in this area? What should you do to reach Australia?

Directions: Answer each question or respond to each statement in the space provided. Use complete sentences.

- 2. **Describe** the three-cell model of air circulation.

- 3. What is the Coriolis effect?

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