

Directed Reading for
Content Mastery

Key Terms The Atmosphere in Motion

Directions: Match the descriptions in Column I with the terms in Column II. Write the correct term in the blank at the left.

Column I

- _____ 1. the boundary where air masses of different temperatures meet
- _____ 2. the current condition of the atmosphere
- _____ 3. a large body of air that develops over a particular region
- _____ 4. tiny solids and liquids in the atmosphere
- _____ 5. the temperature at which condensation can occur
- _____ 6. the atmosphere layer closest to Earth
- _____ 7. the never-ending process followed by Earth's water
- _____ 8. all the layers of gas that surround Earth
- _____ 9. the amount of water vapor in the atmosphere
- _____ 10. measures how fast air molecules are moving
- _____ 11. drops of water or ice crystals too large to be suspended in a cloud
- _____ 12. process of warm air rising and cool air sinking
- _____ 13. measure of amount of water vapor present in the atmosphere compared to the amount that could be held at a specific temperature

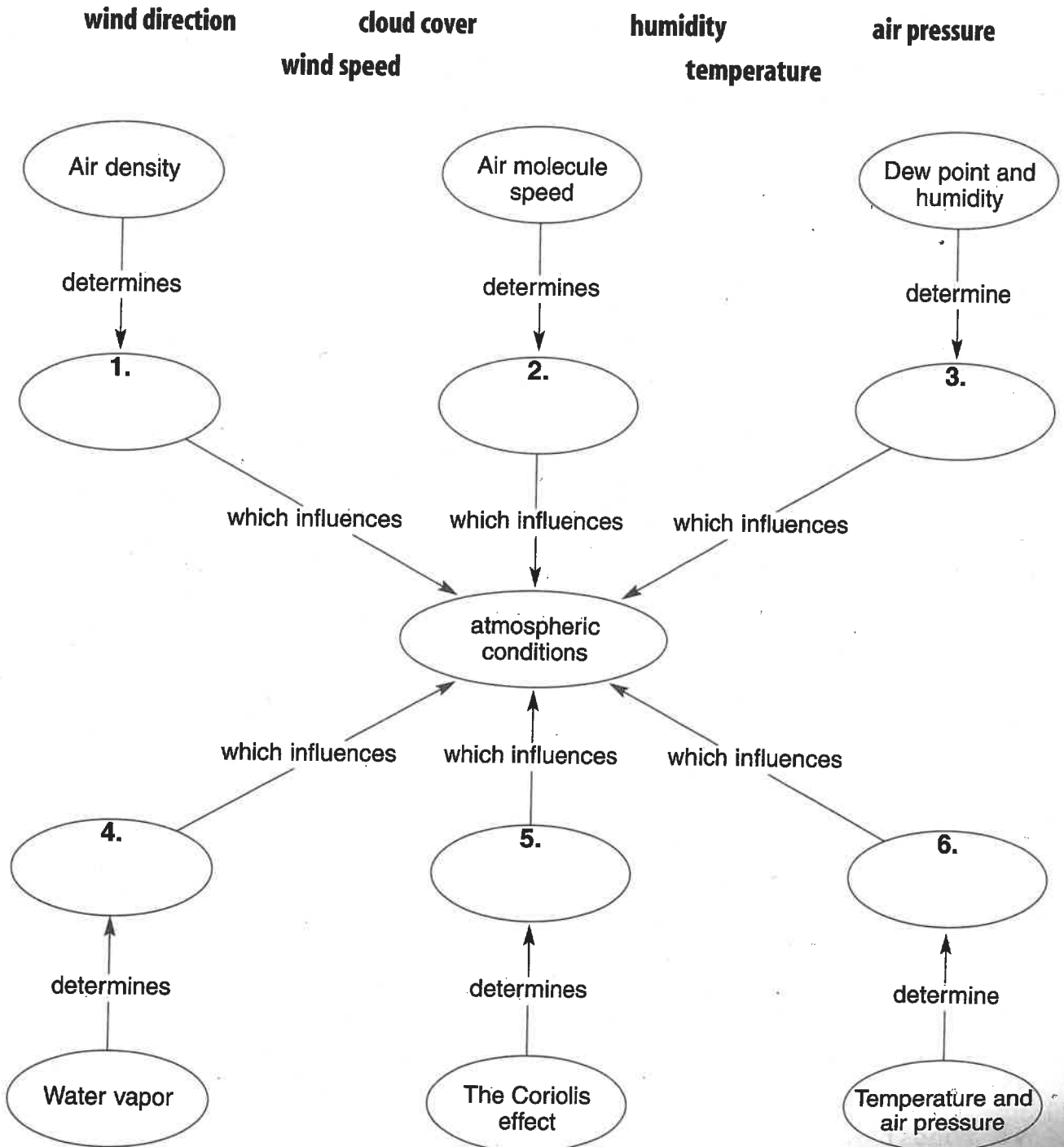
Column II

- tornado
- temperature
- dew point
- humidity
- weather
- convection
- relative humidity
- front
- troposphere
- aerosols
- air mass
- atmosphere
- precipitation
- water cycle

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Overview The Atmosphere in Motion

Directions: Complete the concept map using the terms in the list below.



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Section 1 ■ The Atmosphere
Section 2 ■ Earth's Weather

Directions: Match the definitions in Column I with the terms in Column II by writing the correct letter in the spaces provided.

Column I

- _____ 1. the most abundant gas in the atmosphere
- _____ 2. the force that prevents Earth's atmosphere from moving into outer space
- _____ 3. the second most abundant gas in the atmosphere
- _____ 4. the atmospheric layer that contains the most ozone
- _____ 5. the atmospheric layer that contains the ionosphere
- _____ 6. the location of 2.05% of Earth's water

Column II

- a. oxygen
- b. nitrogen
- c. stratosphere
- d. gravity
- e. ice caps and glaciers
- f. thermosphere

Directions: Choose the correct term from the list below and write it in the space by its description.

conduction

evaporation

convection

condensation

precipitation

- _____ 7. liquid water becomes water vapor
- _____ 8. water vapor becomes liquid water
- _____ 9. drops of water or ice crystals become too large to stay suspended in clouds
- _____ 10. molecules collide and transfer energy
- _____ 11. warm air rises and cool air sinks

Directions: Use the following terms to complete the sentences below.

prevailing westerlies

trade winds

jet streams

polar easterlies

12. Mild winds blowing toward the west are called _____.
13. Cold winds blowing toward the west are called _____.
14. Winds blowing toward the east are called _____.
15. High altitude rivers of air are called _____.

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Section 3 ■ Air Masses and Fronts

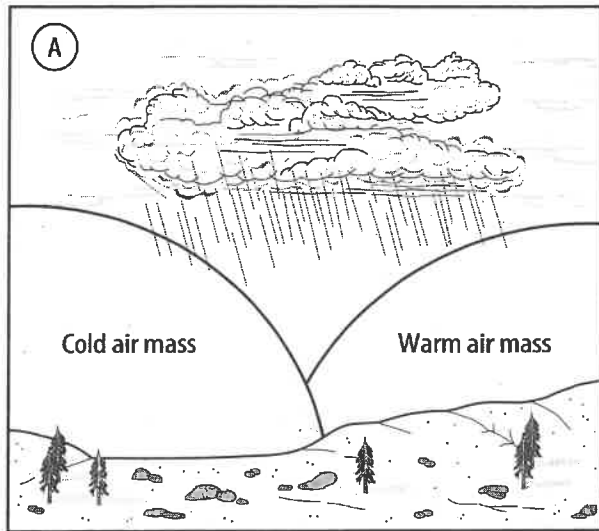
Directions: Write the following terms that describe the illustrations below in the numbered spaces provided.

warm front

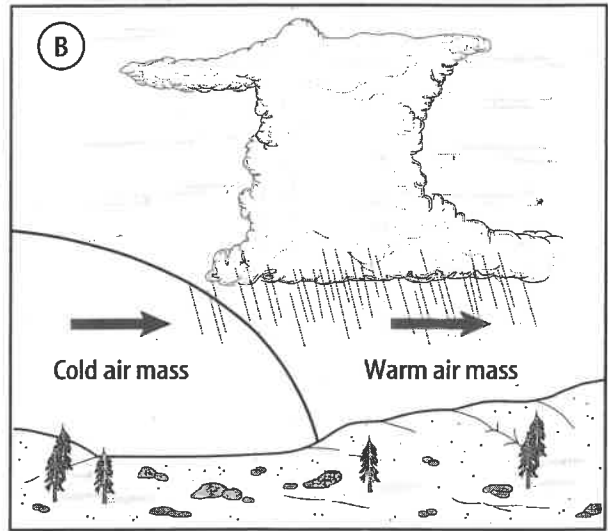
cold front

stationary front

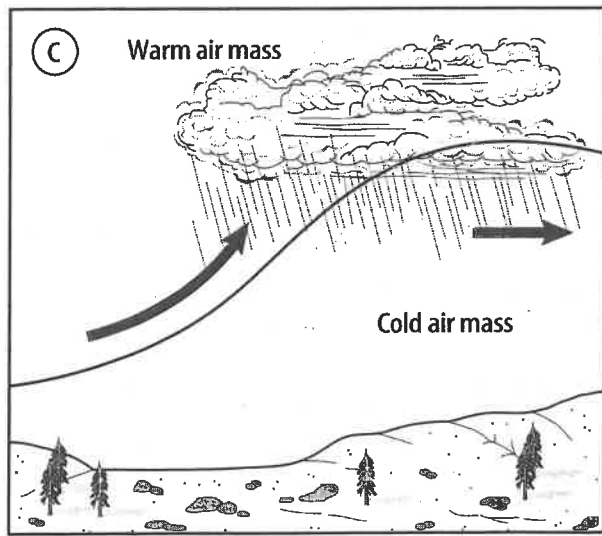
occluded front



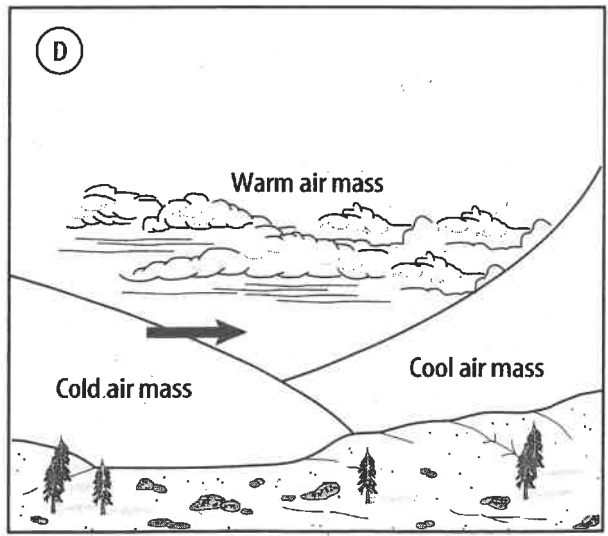
1. _____



2. _____



3. _____



4. _____