

## Skills Worksheet

**Concept Review****MATCHING**

In the space provided, write the letter of the term or phrase that best matches the description.

- |   |                                       |
|---|---------------------------------------|
| _____ 1. international agreement to limit CFC production          | <b>a.</b> El Niño                     |
| _____ 2. destroyed by CFCs  | <b>b.</b> atmospheric CO <sub>2</sub> |
| _____ 3. caused by wind and influenced by Earth's rotation        | <b>c.</b> stratospheric ozone         |
| _____ 4. increases when fossil fuels are burned                   | <b>d.</b> winter                      |
| _____ 5. low-angle sunlight                                       | <b>e.</b> Montreal Protocol           |
| _____ 6. winds push warm water eastward in the Pacific Ocean      | <b>f.</b> greenhouse effect           |
| _____ 7. heat trapped by atmosphere near Earth's surface          | <b>g.</b> DNA damage                  |
| _____ 8. potential result of high UV radiation at Earth's surface | <b>h.</b> surface ocean currents      |
| _____ 9. water is cooler than usual in the eastern Pacific Ocean  | <b>i.</b> prevailing winds            |
| _____ 10. trade winds, westerlies, and polar easterlies           | <b>j.</b> La Niña                     |

**MULTIPLE CHOICE**

In the space provided, write the letter of the term or phrase that best completes each statement or best answers each question.

- |   |  |
|---|--|
| _____ 11. Climate in a region is                            | _____ 12. Rain frequently results whenever |
| <b>a.</b> the long-term, prevailing atmospheric conditions. | <b>a.</b> cold, moist air rises.           |
| <b>b.</b> determined only by seasonal daylight hours.       | <b>b.</b> warm, moist air rises.           |
| <b>c.</b> the atmospheric conditions on a given day.        | <b>c.</b> warm, dry air sinks.             |
| <b>d.</b> never affected by ocean currents.                 | <b>d.</b> cold, dry air sinks.             |

**Concept Review** *continued*

- \_\_\_\_\_ **13.** Latitude strongly influences climate because \_\_\_\_\_ solar energy falls on areas that are closer to the equator than to the poles.  
**a.** less  
**b.** the same amount of  
**c.** more  
**d.** sometimes less
- \_\_\_\_\_ **14.** An important property of air circulation is  
**a.** warm air is denser than cold air.  
**b.** cold air and warm air have the same density.  
**c.** cold air is denser than warm air.  
**d.** air has no mass.
- \_\_\_\_\_ **15.** Which of the following gases is *most* responsible for the greenhouse effect?  
**a.** nitrous oxide  
**b.** methane  
**c.** oxygen  
**d.** water vapor
- \_\_\_\_\_ **16.** Which of the following reduce(s) CO<sub>2</sub> in the atmosphere?  
**a.** phytoplankton  
**b.** tropical rain forests  
**c.** oceans  
**d.** all of the above
- \_\_\_\_\_ **17.** During the summer, sunlight in the Northern Hemisphere shines  
**a.** obliquely for long days.  
**b.** slanting for short days.  
**c.** more directly for long days.  
**d.** less directly for short days.
- \_\_\_\_\_ **18.** Ozone in the stratosphere  
**a.** causes skin cancer.  
**b.** prevents DNA repair.  
**c.** absorbs UV light.  
**d.** destroys CFCs.
- \_\_\_\_\_ **19.** Ozone holes appear in polar regions during springtime when ozone-destroying  
**a.** chlorine atoms are released from polar stratospheric clouds.  
**b.** chlorine atoms are captured by polar stratospheric clouds.  
**c.** CFCs are synthesized on polar stratospheric clouds.  
**d.** CFCs magnify ultraviolet light.
- \_\_\_\_\_ **20.** Once in the atmosphere, CFCs  
**a.** quickly become harmless.  
**b.** destroy ozone for only a short time.  
**c.** persist but stop destroying ozone.  
**d.** persist and continue to destroy ozone for decades.
- \_\_\_\_\_ **21.** La Niña is the \_\_\_\_\_ phase of the El Niño-Southern Oscillation (ENSO) cycle.  
**a.** warm    **c.** neutral  
**b.** cold    **d.** mixing
- \_\_\_\_\_ **22.** The average global temperature has \_\_\_\_\_ during the 20th century.  
**a.** remained the same  
**b.** increased every year  
**c.** risen some years and fallen other years but has increased overall  
**d.** risen some years and fallen other years but has decreased overall