13.B
14. C
15. D
16. A
17. radiation
18. thermal conduction
19. global warming
20. convection current

Standardized Test Preparation

READING

Passage 1

1. D
2. F

Passage 2

1. D
2. I

INTERPRETING GRAPHICS

1. B
2. F
3. B

MATH

1. C
2. I
3. C
4. H
5. D

Vocabulary Activity

ACROSS

2. stratosphere
6. mesosphere
7. secondary
10. Coriolis
11. scrubber
14. polar easterlies
17. ozone
19. wind
20. greenhouse
21. conduction

DOWN

1. jet streams
3. trade
4. thermosphere
5. atmosphere
8. air pressure
9. global warming
12. convection
13. westerlies
15. acid
16. troposphere
18. radiation

SciLinks Activity

1. Answers may vary. Sample answer: Ozone can be good or bad depending on where it is found. Good ozone occurs naturally 10 to 30 miles above the Earth's surface, where it forms a protective layer that shields us from the sun's harmful UV radiation. Bad ozone occurs near the Earth's surface. It is formed when pollutants emitted by cars, power plants, industrial boilers, refineries, chemical plants, and other sources react chemically in the presence of sunlight.
2. Answers may vary. Sample answer: Ozone can irritate the respiratory system. It might cause a person to cough, feel an irritation in the throat, and feel an uncomfortable sensation in the chest. Ozone can reduce lung function (the volume of air that can be drawn in with a full breath and the speed at which air is blown out). Ozone can aggravate asthma. When ozone levels are high, asthmatics might have serious attacks. Some studies suggest that ozone may reduce the immune system's ability to fight disease.
3. Answers may vary. Sample answer: Ozone damage can occur without any noticeable signs. Often, people exposed to ozone experience recognizable symptoms including coughing, irritation in the airways, rapid or shallow breathing, and discomfort when breathing or general discomfort in the chest. People with asthma may experience asthma attacks.
4. Answers may vary. Sample answer: You can reduce ozone levels by walking, biking, carpooling, or using public transportation as an alternative to traveling by car. Keeping a car well-tuned also reduces emissions

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