

Answers**Matching**

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|------|-------|-------|-------|
| 1. g | 6. i | 11. a | 16. o |
| 2. d | 7. n | 12. k | 17. f |
| 3. r | 8. e | 13. q | 18. l |
| 4. b | 9. j | 14. c | |
| 5. p | 10. m | 15. h | |

Fill in the Blank

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|-----------------------------------|---------------------------------------|
| 1. kinetic energy | 9. infrared, visible |
| 2. reflected | 10. water vapor |
| 3. black body | 11. window |
| 4. none | 12. compression |
| 5. albedo | 13. radiative equilibrium temperature |
| 6. water vapor and carbon dioxide | 14. aurora borealis |
| 7. infrared radiation | 15. scattered |
| 8. 30 percent | |

Multiple Choice

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|------|------|------|-------|
| 1. b | 4. b | 7. c | 10. d |
| 2. b | 5. a | 8. b | 11. a |
| 3. d | 6. a | 9. a | 12. b |

True-False

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|------|-------|-------|-------|
| 1. T | 6. T | 11. F | 16. F |
| 2. F | 7. T | 12. T | 17. F |
| 3. F | 8. F | 13. T | 18. T |
| 4. F | 9. T | 14. F | 19. T |
| 5. T | 10. T | 15. T | |

Problems and Additional Questions

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| 1. $-94^{\circ}\text{F} = -70^{\circ}\text{C}$
$-40^{\circ}\text{F} = -40^{\circ}\text{C}$
$-4^{\circ}\text{F} = -20^{\circ}\text{C}$
$32^{\circ}\text{F} = 0^{\circ}\text{C}$
$50^{\circ}\text{F} = 10^{\circ}\text{C}$
$86^{\circ}\text{F} = 30^{\circ}\text{C}$
$140^{\circ}\text{F} = 60^{\circ}\text{C}$
$212^{\circ}\text{F} = 100^{\circ}\text{C}$ | 2. $233\text{K} = -40^{\circ}\text{C}$
$253\text{K} = -20^{\circ}\text{C}$
$273\text{K} = 0^{\circ}\text{C}$
$303\text{K} = 30^{\circ}\text{C}$ |
| | 3. a. about 0.25 micrometers
b. ultraviolet region
c. 2^4 or 16 times |