

# ANSWER KEY

## Section Review 1.1

### Part A Completion

- |                |                         |
|----------------|-------------------------|
| 1. mass        | 7. carbon               |
| 2. space       | 8. organisms            |
| 3. composition | 9. Analytical Chemistry |
| 4. changes     | 10. physical chemistry  |
| 5. five        | 11. energy transfer     |
| 6. carbon      | 12. more than one       |

### Part B True-False

- |        |        |        |
|--------|--------|--------|
| 13. NT | 15. AT | 17. AT |
| 14. ST | 16. ST |        |

### Part C Matching

- |       |       |       |
|-------|-------|-------|
| 18. f | 21. d | 24. c |
| 19. i | 22. h | 25. a |
| 20. b | 23. g | 26. e |
|       |       | 27. j |

### Part D Questions and Problems

28. a. physical chemistry  
b. analytical chemistry  
c. biochemistry  
d. organic chemistry

## Section Review 1.2

### Part A Completion

- |                |                          |
|----------------|--------------------------|
| 1. specific    | 6. productivity          |
| 2. microscopic | 7. crops                 |
| 3. energy      | 8. specific              |
| 4. conserve    | 9. space                 |
| 5. batteries   | 10. chemical composition |

### Part B True-False

- |        |        |
|--------|--------|
| 9. NT  | 11. AT |
| 10. NT | 12. AT |

### Part C Matching

- |       |       |       |
|-------|-------|-------|
| 13. d | 15. c | 17. f |
| 14. a | 16. b | 18. e |

### Part D Questions and Problems

19. production of chemicals such as insulin; replacement of a gene that is not working properly (gene therapy)
20. Factors include poor soil quality, lack of water, weeds, plant diseases, and pests that eat crops.
21. Data collected by the robotic vehicle *Opportunity* indicated that the landing site was once drenched in water.

## Section Review 1.3

### Part A Completion

- |                |                      |
|----------------|----------------------|
| 1. chemists    | 6. scientific method |
| 2. tools       | 7. hypothesis        |
| 3. techniques  | 8. experiment        |
| 4. measurement | 9. theory            |
| 5. systematic  | 10. scientific law   |

### Part B True-False

- |        |        |
|--------|--------|
| 11. NT | 13. ST |
| 12. NT |        |

### Part C Matching

- |       |       |       |
|-------|-------|-------|
| 14. c | 16. a | 18. d |
| 15. b | 17. e | 19. f |

### Part D Questions and Problems

20. a. observation      d. observation  
b. hypothesis      e. scientific law  
c. experiment
21. collaboration and communication

## Section Review 1.4

### Part A Completion

- |                 |                         |
|-----------------|-------------------------|
| 1. plan         | 7. calculate            |
| 2. implementing | 8. evaluate             |
| 3. three        | 9. sense                |
| 4. analyze      | 10. unit                |
| 5. unknown      | 11. significant figures |
| 6. plan         |                         |

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