

# ANSWER KEY

## Chapter 1

### Section 1

1. scientia
2. knowledge

Answers 3 and 4 are interchangeable.

3. observation
4. investigation
5. overlap
6. explanations
7. technology
8. modified

Answers 9, 10, and 11 are interchangeable.

9. life science; living things
10. earth science; Earth and space
11. physical science; matter and energy
12. investigations
13. scientific method
14. dependent
15. constant
16. bias

### Section 2

- |             |               |
|-------------|---------------|
| 1. length   | 13. kg, mg    |
| 2. time     | 14. s         |
| 3. kilogram | 15. km, m, cm |
| 4. kelvin   | 16. a         |
| 5. m        | 17. a         |
| 6. kg       | 18. b         |
| 7. s        | 19. b         |
| 8. K        | 20. a         |

- |                         |                              |
|-------------------------|------------------------------|
| 9. $m^3$ , $cm^3$       | 21. b                        |
| 10. mL, $cm^3$ , L      | 22. a                        |
| 11. $g/cm^3$ , $kg/m^3$ | 23. volume = $6\text{ cm}^3$ |
| 12. K, $^{\circ}C$      |                              |

### Section 3

1. line graph
2. temperature vs. time for heating of water
3. time
4. horizontal or  $x$ -axis
5. vertical or  $y$ -axis
6. circle graph
7. the percentage of elements making up living things
8. oxygen
9. bar graph
10. the height of students in Sarah's class
11. 168 cm

## Chapter 2

### Section 1

1. the total number of m, km, or other distance units that are traveled in total; no;  $d = st$
2. the distance from a start point to an end point, with a direction; yes; no formula
3. the total distance traveled in a time interval divided by the time interval; no;  $s = d/t$
4. the speed at a certain instant in time; no; no formula
5. the speed with the direction of travel; yes;  $s = d/t$  can be used, and a direction added

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**Ensheng Dong**



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