

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 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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Michael Rajnik



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