

**Chapter 1: The Nature of Science STUDY GUIDE Answer Key****Section 1.1 Earth Science**

1. oceanography
2. astronomy
3. geology
4. meteorology
5. astronomy
6. geology
7. oceanography
8. environmental science
9. b
10. c
11. a
12. d
13. c
14. true
15. false
16. true
17. false
18. false
19. true
20. false
21. true
22. astronomy, meteorology, geology, oceanography, and environmental science
23. The atmosphere is necessary for respiration; it protects inhabitants from harmful radiation from the Sun; and it helps keep the planet at a temperature suitable for life.
24. Technology is the application of scientific discoveries.
25. Answers may vary, but could include freeze-dried foods, ski goggles, smoke detectors, and ultralight materials used in sports equipment.

**Section 1.2 Methods of Scientists**

1. c
2. f
3. a
4. d
5. b
6. e
7. safety goggles
8. loose clothing
9. laboratory glassware
10. fire extinguisher
11. spill
12. centimeter, kilometer, meter, millimeter
13. square centimeter, square meter

14. cubic centimeter, cubic meter, liter, milliliter
15. kilogram
16. newton
17. gram per cubic centimeter, gram per milliliter
18. second
19. Celsius, Kelvin
20.  $1 \times 10^8$
21.  $1 \times 10^{-2}$
22.  $3.25 \times 10^2$
23.  $2.5 \times 10^{-4}$
24.  $6.421 \times 10^3$
25. 1000
26. 500
27. 999,000,000
28. 0.0000000999

**Section 1.3 Communication in Science**

1. Communicating scientific data allows others to learn of new discoveries, to possibly verify what has been reported, and to conduct new experiments using the data.
2. They can be used by the teacher to assess understanding of the activity or experiment or can be compared with the results of other students.
3. **Line Graph should be going up and to the right**
4. Time
5. mass of product
6. The mass of product increases with time.
7. model
8. theory
9. law
10. An early model held that Earth was the center of our solar system and that the Sun and other planets orbited Earth.
11. The current model holds that Earth and the other planets in our solar system orbit the Sun.
12. The theory must be consistent with observations, must make predictions that can be tested, and must be the simplest explanation of observations.
13. A scientific model or theory can change with the discovery of new data.

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