

Table of Contents

Product Overview	i–xv
Scientific Investigation and Reasoning	1–4
6.1A	1–2
1. Demonstrating Safe Practices	
6.4A	3–4
2. Selecting Lab Equipment	

Table of Contents

Matter and Energy	5–30
6.5A	5–10
3. Elements	
4. Identifying Elements	
5. Writing Element Symbols	
6.5B	11–12
6. Common Elements of Earth	
6.5C*	13–26
7. Elements and Compounds	
8. Elements and Compounds in Minerals	
9. Identifying Elements in Compounds	
10. Identifying Elements and Compounds	
11. Writing Formulas Correctly	
12. Comparing Elements and Compounds	
13. Elements and Compounds Formative Assessment	
6.5D	27–30
14. Formation of a New Substance	
15. Student Observations	

*Supporting Standard

Table of Contents

Matter and Energy	31–60
6.6A*	31–38
16. Identifying Elements as Metals, Nonmetals, and Metalloids	
17. Identifying Properties of Metals, Nonmetals, and Metalloids	
18. Physical Properties of Metals, Nonmetals, and Metalloids	
19. Elemental Riddles	
6.6B*	39–48
20. Determining Volume	
21. Calculating Density	
22. Calculating Density of a Regular-Shaped Object	
23. Calculating Density Using Water Displacement	
24. Density of Unknown Minerals	
6.6C	49–52
25. Testing Physical Properties of Minerals	
26. Classifying Minerals Based on Physical Properties	
6.7A	53–58
27. Natural Energy Resources	
28. Advantages and Disadvantages of Energy Resources	
29. Advantages and Disadvantages Debate	
6.7B	59–60
30. Energy Plan	

*Supporting Standard

Table of Contents

Force, Motion, and Energy	61–96
6.8A*	61–74
31. Potential and Kinetic Energy Examples	
32. Comparing PE and KE	
33. PE Mass and Height	
34. Kinetic Energy	
35. Ups and Downs	
36. Roller Coaster Physics	
37. Which Does Not Belong?	
6.8B	75–82
38. Forces	
39. Net Force	
40. Unbalanced Forces	
41. Backpacking	
6.8C*	83–86
42. Calculating Speed	
43. Determining Speed and Distance	
6.8D*	87–92
44. Bike Race—Changes in Motion	
45. Graphing Changes in Motion	
46. Mall Walking—Graphing Speed	
6.8E	93–96
47. Identifying Inclined Planes and Pulleys	
48. Selecting the Simple Machine	

*Supporting Standard

Table of Contents

Force, Motion, and Energy	97–120
6.9A	97–104
49. Examples of Conduction, Convection, and Radiation	
50. Thermal Energy Transfer by Conduction	
51. Hot Air, Cold Air	
52. Energy Transfer	
6.9B	105–112
53. Movement of Thermal Energy	
54. Thermal Energy Transfer—Conduction	
55. Warmer to Cooler	
56. Thermal Energy Transfer	
6.9C*	113–120
57. Energy Transformations	
58. Wind Turbine Energy	
59. Energy Transformation	
60. Law of Conservation of Energy	

*Supporting Standard

Table of Contents

Earth and Space	121–160
6.10A	121–124
61. Structural Layers of Earth	
62. Identifying Layers of Earth	
6.10B	125–130
63. Word Association—Rocks	
64. Classifying Rocks	
65. Rock Riddles	
6.10C	131–136
66. Labeling the Plates	
67. Plate Locations	
68. Locating Plates Using Latitude and Longitude	
6.10D	137–140
69. Moving, Shaking, and Splitting	
70. How Do They Form?	

*Supporting Standard

Table of Contents

Earth and Space	121–160
6.11A	141–152
71. Solar System Misconceptions	
72. Planet Mnemonics	
73. The Case of the Missing Planets	
74. Movement of the Planets	
75. Properties of the Planets	
76. The Case of Mistaken Identities	
6.11B*	153–156
77. Just between You and Me—Gravity	
78. Gravity	
6.11C	157–160
79. Space History Timeline	
80. Exploring Space	

*Supporting Standard

Table of Contents

Organisms and Environments	161–200
6.12A	161-162
81. Cell Misconceptions	
6.12B	163–166
82. Characteristics of Prokaryotic and Eukaryotic Cells	
83. Identifying Prokaryotic and Eukaryotic Cells	
6.12C	167–170
84. Taxonomic Classifications	
85. Domains	
6.12D*	171–184
86. Word Meanings	
87. Autotrophic or Heterotrophic?	
88. Kingdom Characteristics	
89. Student Choice	
90. Characteristics of Organisms	
91. If Cells Could Talk	
92. Organism Analogies	

*Supporting Standard

Table of Contents

Organisms and Environments.....	161–200
6.12E.....	185–192
93. Examples of Biotic and Abiotic Factors	
94. Biotic and Abiotic Factors in the Galapagos Island Ecosystem	
95. Abiotic Factors in an Aquarium Ecosystem	
96. Love Bugs	
6.12F.....	193–200
97. Levels of Organization Graphic Organizer	
98. Levels of Organization Chart	
99. Similarities and Differences	
100. Levels of Organization Analogies	

*Supporting Standard