

STATION 1

1. fluorite
2. e
3. d
4. a
5. a
6. e

STATION 2

7. pyrite
8. a
9. e
10. c
11. marcasite
12. b

STATION 3

13. obsidian
14. b
15. a
16. a
17. sandstone
18. f

STATION 4

19. talc
20. b
21. c
22. a
23. c
24. 1500 degrees C

STATION 5

25. coquina
26. b
27. c
28. e

29. F

30. quartz
31. magnesium and iron
32. feldspar, silica, or quartz (any 2)

STATION 6

33. c
34. d
35. d
36. a
37. g
38. h
39. d
40. g
41. h
42. e
43. h
44. b
45. f
46. g

STATION 7

47. satin spar
48. b
49. a
50. c
51.  $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$

STATION 8

52. d
53. e
54. c
55. f
56. a
57. b

- 58. a, i, g, l (any 2)
- 59. b, c, h, k (any 2)
- 60. d, m
- 61. e, f, j (any 2)

STATION 9

- 62. gneiss
- 63. d
- 64. a
- 65. e
- 66. a

STATION 10

- 67. graphite
- 68. b
- 69. d
- 70. b
- 71. d

STATION 11

- 72. quartzite
- 73. a
- 74. c
- 75. b
- 76. a, c, b

STATION 12

- 77. quickly
- 78. at/above
- 79. c
- 80. foliated and nonfoliated
- 81. weathering
- 82. erosion
- 83. d, a, b, c

- 84. d

STATION 13

- 85. beryl
- 86. a
- 87. d
- 88. e
- 89. 1287 degrees C
- 90.  $\text{Be}_3\text{Al}_2\text{SiO}_6$  or  $\text{Be}_3\text{Al}_2\text{Si}_6\text{O}_{18}$

STATION 14

- |                    |                                  |
|--------------------|----------------------------------|
| 91. hematite       | 92. oxide/hydroxide              |
| 93. conglomerate   | 94. sedimentary                  |
| 95. alabaster      | 96. gypsum                       |
| 97. halite         | 98. halide                       |
| 99. diorite        | 100. igneous                     |
| 101. scoria        | 102. igneous                     |
| 103. fossiliferous | 104. limestone or<br>sedimentary |
| 105. biotite       | 106. mica or silicate            |
| 107. marble        | 108. metamorphic                 |
| 109. breccia       | 110. sedimentary                 |
| 111. chalcedony    | 112. quartz                      |
| 113. magnetite     | 114. oxide/hydroxide             |
| 115. basalt        | 116. igneous                     |

STATION 15

This question was not written appropriately and therefore was not graded. Possible answers for this would be (not in any order): feldspar, quartz, pyroxene, plagioclase, olivine, mica, amphibole