

**Directions:** Circle the letters on the **Student Response Sheet** that you believe correctly answers the questions.

**Station I**

1. The name of this mineral is:
  - A. pyrite
  - B. chalcopyrite
  - C. bornite
  - D. lepidolite
  
2. The specific gravity of this mineral is approximately:
  - A. 1 – 2
  - B. 3 – 4
  - C. 5 – 6
  - D. 7 – 8
  
3. This mineral is used in the manufacture of:
  - A. electrical wire
  - B. steel
  - C. aluminum
  - D. glass
  - E. none of the above

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**Station II**

4. The name of this mineral is:
  - A. epidote
  - B. nepheline
  - C. celestite
  - D. fluorite
  - E. barite
  
5. The hardness of this mineral is:
  - A. 2
  - B. 3
  - C. 4
  - D. 5
  - E. 6
  
6. This mineral is used in small amounts for:
  - A. tanning leather
  - B. fertilizer
  - C. toothpaste
  - D. concrete
  - E. none of the above

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**Station III**

7. The name of this mineral is:
  - A. appatite
  - B. magnetite
  - C. sodalite
  - D. tourmaline
  - E. goethite
  
8. The streak color of this mineral is:
  - A. red
  - B. black
  - C. silver
  - D. yellow-brown
  
9. This mineral is used to make:
  - A. plastics
  - B. paper
  - C. iron
  - D. glass
  - E. all of the above

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**Station IV**

10. The name of this mineral is:

- A. ulexite
- B. gypsum
- C. calcite
- D. sodalite
- E. barite

11. The hardness of this mineral is:

- A. 1
- B. 2
- C. 3
- D. 4

12. In which of the following environments does this mineral form?

- A. high mountain streams
- B. deep ocean
- C. fresh water lakes
- D. evaporite

13. This mineral is used in the manufacture of:

- A. plaster of Paris
- B. sheet rock
- C. paper
- D. rubber
- E. all of the above

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**Station V**

14. The names of the two rocks at this station are:

- A. travertine and limestone
- B. limestone and dolomite
- C. limestone and diatomite
- D. dolomite and diatomite
- E. dolomite and travertine

15. The chemical formula for the pink-colored rock is:

- A.  $\text{SiO}_2$
- B.  $\text{CaCO}_3$
- C.  $\text{CaMg}(\text{CO}_3)_2$
- D.  $\text{CaSO}_4$
- E.  $\text{Na}_2\text{SO}_4$

16. The chemical formula for the white-colored rock is:

- A.  $\text{SiO}_2$
- B.  $\text{CaCO}_3$
- C.  $\text{CaMg}(\text{CO}_3)_2$
- D.  $\text{CaSO}_4$
- E.  $\text{Na}_2\text{SO}_4$

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**Station VI**

17. The name of this rock is:

- A. limestone
- B. arkose
- C. sandstone
- D. siltstone
- E. mudstone

18. In which of the following environments does this mineral form?

- A. beach
- B. aeolian
- C. fluvial streams
- D. all of the above
- E. none of the above

19. This rock is used for:

- A. building stone
- B. glass
- C. ceramics
- D. all of the above
- E. none of the above

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**Station VII**

20. The name of this mineral is:

- A. pyrite
- B. chalcopyrite
- C. sphalerite
- D. galena
- E. magnetite

21. The economic element extracted from this mineral is:

- A. Pb
- B. Cu
- C. Zn
- D. Ni
- E. Te

22. This mineral is used in the production of:

- A. brass
- B. galvanized metal
- C. batteries
- D. all of the above
- F. none of the above

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**Station VIII**

23. The texture of this rock is:

- A. porphyritic
- B. phaneritic
- C. aphanitic

24. In which of these environments does this mineral form?

- A. volcanic
- B. hypabyssal
- C. plutonic
- D. metamorphic

25. The light color of this rock indicates that it:

- A. contains abundant calcite
- B. contains many different minerals
- C. formed at great depths
- D. is mafic
- E. is felsic



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**Station IX**

26. Which rocks were formed near or on the surface?
- A. 1 and 2
  - B. 1 and 3
  - C. 1, 2, and 3
  - D. 2 and 3
  - E. all of the above
27. Which rocks are plutonic?
- A. 1 and 2
  - B. 1 and 3
  - C. 2 and 3
  - D. 2 and 4
  - E. 3 and 4
28. Which rocks are texturally different, but chemically similar?
- A. 1 and 2
  - B. 1 and 3
  - C. 1 and 4
  - D. 2 and 3
  - E. none of the above
29. Which rock composes most of the crust found under the ocean waters?
- A. 1
  - B. 2
  - C. 3
  - D. 4
30. All rocks included in this station are classified as:
- A. sedimentary
  - B. igneous
  - C. metamorphic

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**Station X**

31. Rock 1 was formed from:

- A. mudstone
- B. sandstone
- C. limestone

32. Rock 2 was formed from:

- A. mudstone
- B. sandstone
- C. limestone

33. Rock 3 was formed from:

- A. mudstone
- B. sandstone
- C. limestone

34. Rock 4 was formed from:

- A. mudstone
- B. sandstone
- C. limestone

- A. All rocks included in this station are classified as: sedimentary
- B. igneous
- C. metamorphic

**STUDENT RESPONSE SHEET**

**STATION I**

- 1. A B C D
- 2. A B C D
- 3. A B C D E

**STATION II**

- 4. A B C D E
- 5. A B C D E
- 6. A B C D E

**STATION III**

- 7. A B C D E
- 8. A B C D
- 9. A B C D E

**STATION IV**

- 10. A B C D E
- 11. A B C D
- 12. A B C D
- 13. A B C D E

**STATION V**

- 14. A B C D E
- 15. A B C D E
- 16. A B C D E

**STATION VI**

- 17. A B C D E
- 18. A B C D E

- 19. A B C D E

**STATION VI**

- 20. A B C D E
- 21. A B C D E
- 22. A B C D E

**STATION VIII**

- 23. A B C
- 24. A B C D
- 25. A B C D E

**STATION IX**

- 26. A B C D E
- 27. A B C D E
- 28. A B C D E
- 29. A B C D
- 30. A B C

**STATION X**

- 31. A B C
- 32. A B C
- 33. A B C
- 34. A B C
- 35. A B C

**Possible correct responses: 35**

**Total correct responses: \_\_\_\_\_**

**ADMINISTRATIVE PAGE**

<u>Answers</u>	<u>Station</u>	<u>Specimens at this Station</u>
1. D	I	Bornite
2. C		
3. A	II	Fluorite
4. D		
5. C		
6. C	III	Goethite
7. E		
8. D		
9. C	IV	Gypsum
10. B		
11. B		
12. D		
13. E	V	Limestone Dolomite
14. B		
15. C		
16. B	VI	Sandstone
17. C		
18. D		
19. D	VII	Sphalerite
20. C		
21. C		
22. D	VIII	Andesite
23. A		
24. B		
25. E	IX	1. Andesite 2. Granite 3. Basalt 4. Gabbro
26. B		
27. D		
28. A		
29. C	X	1. Slate 2. Phyllite 3. Marble 4. Quartzite
30. B		
31. A		
32. A		
33. C		
34. B		
35. C		

Recommended resource: Physical Geology Lab Manual published by EOA Scientific Systems, Inc. For information, please visit the following web site:

<http://www.otherworlds-edu.com>