

## 7<sup>th</sup> grade science

Name \_\_\_\_\_ Date \_\_\_\_\_ Block \_\_\_\_\_

### **Mining the Web**

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*Go to the Science Queen website ([www.thesciencequeen.net](http://www.thesciencequeen.net)) click on student resources and then Mining the Web.*

#### **Site 1: Mineral Uses**

Write two main uses of each mineral.

1. Aluminum \_\_\_\_\_
2. Antimony \_\_\_\_\_
3. Beryllium \_\_\_\_\_
4. Coal \_\_\_\_\_
5. Copper \_\_\_\_\_
6. Fluorite \_\_\_\_\_
7. Galena (Lead) \_\_\_\_\_
8. Gold \_\_\_\_\_
9. Gypsum \_\_\_\_\_
10. Halite \_\_\_\_\_
11. Hematite (Iron Ore) \_\_\_\_\_
12. Limestone \_\_\_\_\_
13. Lithium \_\_\_\_\_
14. Mica \_\_\_\_\_
15. Phosphate \_\_\_\_\_
16. Silica \_\_\_\_\_
17. Silver \_\_\_\_\_
18. Sulfur \_\_\_\_\_
19. Zinc \_\_\_\_\_

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20. Based on current consumption, it is estimated that you - and every other person in the United States - will use more than a \_\_\_\_\_ pounds of rocks, minerals and metals during your lifetime. How many pounds of the following will you use?

_____ Lead	_____ Aluminum	_____ Salt
_____ Zinc	_____ Iron	_____ Stone, sand, &
_____ Copper	_____ Clays	gravel

### Site 2: Fireworks

21. How many tons of fireworks are used each year? \_\_\_\_\_

22. What minerals are used to make the following colors or special effects?

Yellows -	Bright Greens -
Orange -	Silvery White -
Gold Sparks -	Deep Reds -
Bright flashes -	Lavender -
Silvery-white flashes -	Blues -

### Site 3: Mineral Groups

23. What are the birthstone(s) for each month?

- January: \_\_\_\_\_ or \_\_\_\_\_
- February: \_\_\_\_\_ or \_\_\_\_\_
- March: \_\_\_\_\_ or \_\_\_\_\_
- April: \_\_\_\_\_ or \_\_\_\_\_
- May: \_\_\_\_\_ or \_\_\_\_\_
- June: \_\_\_\_\_ or \_\_\_\_\_ or \_\_\_\_\_

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- g. July: \_\_\_\_\_ or \_\_\_\_\_
- h. August: \_\_\_\_\_ or \_\_\_\_\_
- i. September: \_\_\_\_\_ or \_\_\_\_\_
- j. October: \_\_\_\_\_ or \_\_\_\_\_
- k. November: \_\_\_\_\_ or \_\_\_\_\_
- l. December: \_\_\_\_\_ or \_\_\_\_\_
24. Name three minerals that “glow” under ultraviolet light.
25. What is the glow called?
26. What is a gemstone?
27. Can all minerals be gemstones? Explain.
28. What is a mineraloid? Give 3 examples.

### **Site 4 Minerals in your Life**

29. Retired cell phones contain \_\_\_\_\_ copper, \_\_\_\_\_ silver, \_\_\_\_\_ gold, \_\_\_\_\_ of palladium and, \_\_\_\_\_ platinum.
30. Currently gold is at \$1500 dollars an ounce. There are \_\_\_\_\_ oz in a pound, and \_\_\_\_\_ pounds in a ton.
31. How much is the gold worth in recycled cell phones? \_\_\_\_\_

### **Site 5: Minerals in your Home**

32. What minerals are hidden in your home? Look up the following items & list what minerals they contain, and what the mineral is used for.
- a. Watch: \_\_\_\_\_
- b. Bunk Bed: \_\_\_\_\_

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- c. Dental Care: \_\_\_\_\_
- d. Sunscreen: \_\_\_\_\_
- e. Computer: \_\_\_\_\_
- f. Telephone: \_\_\_\_\_
- g. Clock: \_\_\_\_\_

### **Site 6: State Symbols Geology**

- 33. What is our state gemstone? \_\_\_\_\_
- 34. What is our state fossil? \_\_\_\_\_
- 35. Which mineral is the most popular? \_\_\_\_\_
  - a. How many states have adopted it? \_\_\_\_\_
- 36. How many states do not have "state minerals"? \_\_\_\_\_

**Challenge:** Identify each state by its "rocky" nickname.  
(You will need to use a search engine for this one!)

The Gem State \_\_\_\_\_

The Golden State \_\_\_\_\_

The Diamond State \_\_\_\_\_

The Copper State \_\_\_\_\_

The Granite State \_\_\_\_\_

The Goober State \_\_\_\_\_

The Silver State \_\_\_\_\_

The Cave State \_\_\_\_\_