

7th grade science

Name _____ Date _____ Block _____

Mineral Mania

Go to the Science Queen website (www.thesciencequeen.net) click on 7th grade and then projects. Click on Mineral Mania to find the answers to these questions.

Mineral Uses

Write the three 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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Part II. Fireworks.

1. 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 -

Part III. Birthstones

What are the birthstone(s) for each month?

January: _____ or _____

February: _____ or _____

March: _____ or _____

April: _____ or _____

May: _____ or _____

June: _____ or _____ or _____

July: _____ or _____

August: _____ or _____

September: _____ or _____

October: _____ or _____

November: _____ or _____

December: _____ or _____

2. What is a gemstone? Can all minerals be gemstones? Explain.

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Part IV. Minerals & Metals at Home <http://www.minsocam.org/MSA/K12/uses/uses.html>
Explore the site to discover the minerals hidden in each item.

Area 1: Bedroom

- | | |
|-------------------|--|
| _____ Batteries | a. bauxite, ilmenite |
| _____ Bed | b. Brass, quartz, wolframite, copper |
| _____ Clock Radio | c. copper, quartz, gold, cassiterite |
| _____ Closet | d. graphite |
| _____ Golf Clubs | e. graphite, galena, sphalerite |
| _____ Lamp | f. hematite & chromotite |
| _____ Mirror | g. hematite, chromotite, & quartz |
| _____ Pencil | h. hematite, chromotite, gold, quartz |
| _____ Watch | i. hematite, chromotite, quartz, pentlandite |
| _____ Batteries | j. bauxite, ilmenite |
| _____ Bed | k. Brass, quartz, wolframite, copper |

Area 2: Bathroom

- | | |
|------------------------|---|
| _____ Make-up | a. Apatite, Fluorite |
| _____ Towels | b. Borax |
| _____ Deodorant | c. Cassiterite, Chromite |
| _____ Sunscreen | d. Feldspar, Pyrolusite, Chromite, Copper
Muscovite, talc, hematitie, bismuth, |
| _____ Toothpaste | e. barite |
| _____ Bathroom Cleaner | f. Sphalerite, Chromite |
| _____ Tub | g. Zincite |

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Area 3: Living Room

- | | |
|----------------------|--|
| _____ Clock | a. Chromite, Wolframite, Copper, Quartz, Silver |
| _____ Computer | b. Copper, Chromite, Silver, Graphite |
| _____ Easy Chair | c. Copper, Chromite, Silver, Hematite, Pentlandite |
| _____ Phone | d. Pentlandite, Quartz |
| _____ TV | e. Sphalerite, Chromite, Sulfur |
| _____ Vacuum Cleaner | f. Wolframite, Copper, Quartz, Silver |

Area 4: Kitchen

- | | |
|----------------------|--|
| _____ Dishwasher | a. Halite
Hematite, Chromite, Galena, Copper, Cinnabar, |
| _____ Drinking Glass | b. Pentlandite |
| _____ Fridge | c. Hematite, Chromite, Galena, Copper, Quartz |
| _____ Matches | d. Quartz, Gold |
| _____ Salt & Pepper | e. Sulfur |