

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 <http://www.mii.org/commonminerals.html>

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. <http://minerals.state.nv.us/forms/educ/FourthOfJuly.pdf>

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 <http://galleries.com/minerals/interest.htm>

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.nrcan.gc.ca/mms/scho-ecol/tour/home_e.htm

Explore the site to discover the minerals "hidden" in each item. Warning: Be patient for the page to load completely!

Area 1: The Driveway

- | | |
|--|---|
| <input type="checkbox"/> Car | A. Include iron & nickel |
| <input type="checkbox"/> Bike | B. Includes aluminum, barite, calcite, iron, lead, mica, nepheline syenite, nickel, petroleum products, clays, silica, & zinc |
| <input type="checkbox"/> Skateboard | C. Includes gypsum, iron, limestone, clays, & silica |
| <input type="checkbox"/> Concrete sidewalk | D. Include graphite, clays, & silica |
| <input type="checkbox"/> Tools | E. Includes barite, iron, nickel & petroleum products |
| <input type="checkbox"/> Windows | F. Includes aluminum, calcite, iron, mica, nickel, petroleum products, clays, silica, & talc |
| <input type="checkbox"/> Shingles | G. Include nepheline syenite & silica |
| <input type="checkbox"/> Asphalt driveway | H. Include copper & zinc, which make brass |
| <input type="checkbox"/> Bricks | I. Include petroleum products |
| <input type="checkbox"/> Door knob, brass numbers, & mailbox | J. Includes petroleum products & silica |

Area 2: The Kitchen

- | | |
|--|---|
| <input type="checkbox"/> Abrasive cleanser | A. Includes copper, gold, & petroleum products |
| <input type="checkbox"/> Pens | B. Includes iron, nickel, & silver |
| <input type="checkbox"/> Cutlery | C. Include clays |
| <input type="checkbox"/> Microwave oven | D. Includes aluminum, copper, iron, nepheline syenite, nickel, & silica |
| <input type="checkbox"/> Stove | E. Includes silica |
| <input type="checkbox"/> Toaster | F. Includes iron & nickel |
| <input type="checkbox"/> Sink | G. Includes limestone |
| <input type="checkbox"/> Blackboard & plates | H. Includes copper, gold, iron, nepheline syenite, nickel, & silica |
| <input type="checkbox"/> Chalk | I. Includes copper, iron, nickel, mica, chromium, & petroleum products |
| <input type="checkbox"/> Telephone | J. Includes iron, nepheline syenite, nickel, petroleum products, & silica |
| <input type="checkbox"/> Clock | K. Include limestone, mica, petroleum products, clays, silica, & talc |

Area 3: The Den

- | | |
|--------------------------------------|---|
| <input type="checkbox"/> Computer | A. Includes aluminum & petroleum products |
| <input type="checkbox"/> Stereo | B. Includes graphite & clays |
| <input type="checkbox"/> Television | C. Includes aluminum, copper, iron, nickel, & silica |
| <input type="checkbox"/> Books | D. Includes copper, iron, nickel, & zinc |
| <input type="checkbox"/> Desk | E. Includes petroleum products & silver |
| <input type="checkbox"/> Metal chest | F. Made of iron & nickel |
| <input type="checkbox"/> Carpet | G. Includes gold, silica, nickel, aluminum, zinc, iron, petroleum products, & about thirty other minerals |
| <input type="checkbox"/> CD & chair | H. Includes limestone, petroleum products, & selenium |
| <input type="checkbox"/> Camera | I. Include limestone & clays |
| <input type="checkbox"/> Film | J. Include aluminum, iron, gold, nepheline syenite, nickel, petroleum products, silica, & silver |
| <input type="checkbox"/> Pencil | K. Includes gold, iron, nickel, & petroleum products |