

## Minerals in Your Home

A lot of minerals are needed to make the items in your home. Minerals are needed to make the ingredients that go into products you use in your home every day. Do you know which minerals are used in these items? *A number of minerals are listed after each household item. Circle the minerals that are needed to make each item. Then, turn the page and check your answers.*

**BATTERIES** Graphite, Gold, Galena, Sphalerite, Fluorite, Orpiment, Calcite

**TOWEL** Galena, Sphalerite, Asbestos (fibers), Quartz, Chromite, Sulfur, Cinnabar

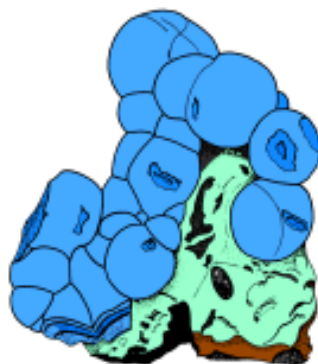
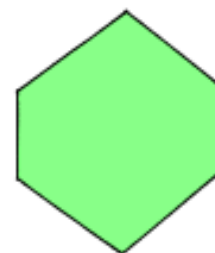
**SUNSCREEN** Fluorite, Tourmaline, Sphalerite, Chromite, Zincite, Malachite, Muscovite



**COSMETICS** Muscovite, Stibnite, Hematite, Graphite, Pyrite, Garnet, Talc

**TOILET** Feldspar, Hematite, Magnetite, Smithsonite, Pyrolusite, Chromite, Copper, Azurite, Malachite, Sulfur, Flint

**RECLINER CHAIR** Sulfur, Halite, Hematite, Barite, Adamite, Magnetite, Sphalerite, Gypsum, Wulfenite



**DENTAL CARE** Silver, Gold, Muscovite, Barite, Rutile, Calcite, Fluorite, Cinnabar, Selenite



# Minerals in Your Home

**BATTERIES** Graphite, Galena, Sphalerite. Galena is a source of *lead*. Sphalerite is a source of *zinc*.

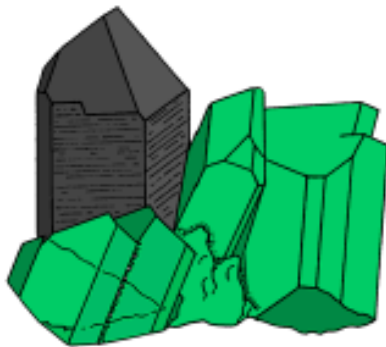


**TOWEL** Sphalerite and Chromite. These two minerals are used to create dyes that are used to color towels. Bet you wondered how something hard like a mineral could be found in something soft like a towel!



**SUNSCREEN** Sphalerite and Zincite. Sunscreen contains a compound called *zinc oxide*. The element zinc is removed from the minerals sphalerite and zincite.

**COSMETICS** Muscovite, Hematite, Talc. Talc is crushed into a very fine powder and used to make talcum powder and other cosmetics. Muscovite is crushed and added to cosmetics like lipstick and face powder to give a glittery look. Hematite is crushed to a powder and added to cosmetics to give a deep red color.



**TOILET** Feldspar, Hematite, Magnetite, Pyrolusite, Chromite, Copper, Azurite, Malachite. The toilet is made of porcelain which contains feldspar as its main ingredient. Pyrolusite is used to make coloring for the porcelain. Hematite and magnetite are used to make the steel parts (handles, inside valve pieces, etc.). Handles are often covered with a shiny metal called *chrome* that comes from the



mineral chromite. Copper and copper ores (like azurite and malachite) are used to make the pipes that bring water to the toilet. Today, many pipes are made of plastics or flexible metal tubing as well.)



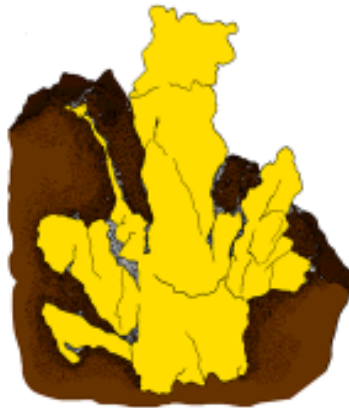
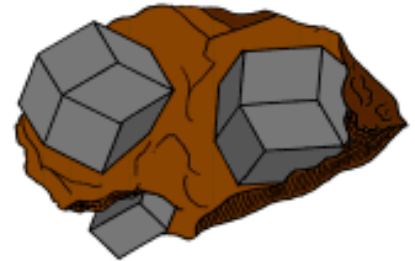
### RECLINER CHAIR

Sulfur, Hematite, Magnetite, Sphalerite.

Sulfur is used to make the foam rubber that is used for soft padding in the chair cushions. Hematite and magnetite are the source of

iron for making the steel that is used to make the

chair frame. Sphalerite is a source of zinc that is needed to make some dyes for the cloth covering.



### DENTAL CARE

Gold, Rutile, Fluorite, Cinnabar.

Gold is used to cover damaged teeth and for fillings in cavities. Rutile is used to give color to false teeth so they look real. Fluorite is the source of the element *fluorine* which is combined with other elements to make the compound *fluoride*. Fluoride helps make teeth stronger

and resistant to decay. Cinnabar is the main source of mercury. A mercury compound (called *mercury amalgam*) was used for many years to fill cavities. Mercury is VERY poisonous, however, and mercury amalgam is no longer used.

