

Name(s) _____

Mineral Mania Visit the Earth Science section of the Kid Zone at the Science Spot (<http://sciencespot.net>) to find the answers to these questions

Site: Mineral Uses

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

800 Lead 750 Zinc 1500 Copper 3600 Aluminum
32,000 Iron 27,000 Clays 28,000 Salt 1,000,000 Stone, sand, & gravel

2. Match each resource to its best use(s).

- | | |
|------------------------|---|
| <u> D </u> Aluminum | A. Used to make "copper" pennies, brass, and nails |
| <u> K </u> Antimony | B. Used to make fertilizer, paper, film, matches, tires, and drugs |
| <u> E </u> Beryllium | C. Used to make phosphate fertilizer and is found in soft drinks |
| <u> F </u> Coal | D. Most abundant element used to make containers and deodorants |
| <u> G </u> Copper | E. Found in metal alloys for air crafts as well as emeralds |
| <u> H </u> Flint | F. Used to produce 56% of electricity in the US |
| <u> L </u> Fluorite | G. Used to make electrical wires, brass, bronze, coins, plumbing, and jewelry |
| <u> I </u> Galena | H. Used to make arrowheads, spear points, and knives; may be used to start a fire |
| <u> M </u> Gold | I. Primary source of lead, used to make batteries, fishing weights, and the lead shields to protect us during X-rays |
| <u> J </u> Gypsum | J. Primary use is for "sheet rock" or wallboard |
| <u> R </u> Halite | K. Native element used to make medicine, glass, and fireworks |
| <u> N </u> Hematite | L. Used to make fluoride toothpaste, pottery, and hydrofluoric acid |
| <u> O </u> Limestone | M. Used in dentistry, medicine, jewelry, art, and computers; very malleable (can be made to be thinner than human hair) |
| <u> S </u> Lithium | N. Primary ore of iron used to produce iron for steel for automobiles, tools, and bridges |
| <u> P </u> Mica | O. Composed of calcium carbonate and is used in the construction of homes, sidewalks, bridges, and skyscrapers |
| <u> C </u> Phosphate | P. May be ground up to add "sparkle" to paints and cosmetics |
| <u> Q </u> Silica | Q. Used in the manufacture of computer chips, glass, ceramics, abrasives, and sweeteners |
| <u> T </u> Silver | R. Used as food seasoning, water softener, and de-icer |
| <u> B </u> Sulfur | S. Compounds are used in ceramics and glass; may also be used for rocket propellants, batteries, and medicine |
| <u> A </u> Zinc | T. Used in photography, chemistry, jewelry, coins, mirrors, and silverware |