

Everyday Geology

Name _____

Go to the Science Spot's Kid Zone (<http://sciencespot.net>) and click the link for Rocks & Minerals to find the sites you need to complete the worksheet.

Site #1: 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 _____ pounds of rocks, minerals and metals during your lifetime. How many pounds of the following will you use?

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

2. Identify each resource based on the clues provided.

Name	Description
	Composed of calcium carbonate and is used in homes, sidewalks, bridges, and skyscrapers
	Compounds are used in ceramics and glass; may also be used for rocket propellants, batteries, and medicine
	Found in metal alloys for airplanes as well as in emeralds
	May be ground up to add "sparkle" to paints and cosmetics
	Most abundant element used to make containers and deodorants
	Native element used to make medicine, glass, and fireworks
	Primarily used for "sheet rock" or wallboard
	Primary ore of iron used to produce steel, automobiles, tools, & bridges
	Primary source of lead; used to make batteries, fishing weights, and lead shields used during X-rays
	Used as a food seasoning, water softener, and de-icer
	Used in dentistry, medicine, jewelry, art & computers; very malleable (can be made to be thinner than human hair)
	Used in photography, chemistry, jewelry, coins, mirrors, and silverware
	Used to make arrowheads, spear points, knives; may be used to start a fire
	Used to make computer chips, glass, ceramics, abrasives, and sweeteners
	Used to make electrical wires, brass, bronze, coins, plumbing, and jewelry
	Used to make fertilizer, paper, film, matches, tires, & medicines
	Used to make fluoride toothpaste, pottery, and hydrofluoric acid
	Used to make "copper" pennies, brass, & nails
	Used to make phosphate fertilizer and is found in soft drinks
	Used to produce the majority of electricity in the US

Site #2: Mineral Groups

1. What are the "season" stones? How were they selected? _____

2. Some minerals "glow" under ultraviolet light. What is the glow called? List 3 examples. _____

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

Site #3: Mineralogy4Kids - Click the "house" icon to learn more about minerals in your home.

1. Choose five items and list the minerals/resources used to make each one.
Item #1 - _____ - _____
Item #2 - _____ - _____
Item #3 - _____ - _____
Item #4 - _____ - _____
Item #5 - _____ - _____
2. Find pairs of items that have at least one mineral/resource in common. List the common material along with the items. You cannot use any of the items you listed in #1 for this section.
Set #1 - _____ & _____ contain _____
Set #2 - _____ & _____ contain _____
Set #3 - _____ & _____ contain _____