

# 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 \_\_\_\_\_