

Due: 9/22/09

Geology 1002.1 Project 2

Part I - What kind of minerals

Go through your home or apartment and make a list of at least ten minerals you find. On your list indicate what mineral and what object contained the mineral (e.g., quartz inside my clock).

You will find the following web site EXTREMELY useful
(http://www.minsocam.org/MSA/K12/K_12.html)

Part II - How much copper do we use

Step 1 - Take one room in your home or apartment and measure/estimate its dimensions to the nearest foot (length, width, and height).

Step 2 - If your room has outlets on each wall and a ceiling light then the linear length of copper wire is approximately equal to twice the length plus twice the depth plus the height. If each linear foot of copper wire weighs 0.1 lbs, then how much copper wire is in your room?

Step 3 - If pure copper represents only 3% of copper ore. How much copper ore did it take to make the wire in your room?

Step 4 - Multiple the value in Step 3 by the number of rooms in your house or apartment complex to see how much copper ore is used.

Part III - How much gypsum do we use

Step 1 - Estimate the square footage of the walls and ceiling in your room from Step 1, Part II above (walls will be length time height plus width times height and ceiling will be length times width). If the gypsum in the sheetrock weighs 2 lbs per square foot, how much gypsum is in your room?

Step 2 - Multiple the value in Step 1 by the number of rooms in your house or apartment complex to see how much gypsum is used.