

Geology 221a - Mineralogy

Mineral Project Hand Specimen Properties

Please prepare a brief report on your project mineral that contains at least the following information:

mineral name
probable chemical formula
location (where did it come from)
rock type
associated minerals

luster
hardness
color
streak
cleavage(s), number and angles between them
habit
crystal size
measured specific gravity

Report data for your specimen, not general characteristics of its mineral type. If numbers are involved, be sure to report the uncertainty of your measurement. Include in your report one or more photographs of the sample with a scale and a figure caption that stands alone. Briefly compare your sample with what reference books list as the physical properties of the mineral. Be sure to distinguish observations and measurements that you have made from "book properties." For example, most of you will be able to count cleavages and measure the angles between them, but you will need to find the Miller Indices of cleavages in a book. Be sure to cite your sources completely, including page numbers in books and URL with date accessed for Internet sources.

The assignment is designed to guarantee that you have selected your project mineral and have looked at it carefully.