

## **Mineral Suite Project**

### **Papers:**

Due November 30

1+ page paper on your topic written individually. You should include a basic description of the geologic environment, how you would recognize it in the field, what minerals are typically expected in this environment, how it forms, some important examples, what they are important for.

You will find this information in other mineralogy texts, petrology books, and perhaps a few other sources in the library with some digging. I will leave some other texts in the classroom. These don't need to be super technical so I wouldn't go searching in journals for the answer. But if you do, don't forget to not reshel things so the librarians think we are actively reading the Geology literature!!

### **Mineral Suite lab**

You will get a suite of minerals typically associated with your geologic environment. You need to identify each of the minerals. You will have hand samples and thin sections available to work with. You can use the tools for destructive tests on all these samples. You will also have a black (UV) light as a new tool to use to help in identification, which may or may not be helpful. You don't need to use all your available tools, but use what you need to in order to name each mineral. List each sample, the properties you identified, and the name you gave it.

### **Presentation December 8**

Your group of 4 will present your findings to the rest of the class. The basic format should include why the rest of the class should care about your mineral suite and how they would recognize it. Choose at least two minerals for a presentation of the full optical and physical properties, the others can be mentioned or described in lesser detail. Try not to have a simple laundry list of minerals. You should include the key points covered in the paper. You can include hand samples to pass around, make it as interactive with the rest of the class as you like. Points for creativity in the presentation.