

**Sample Documentation**

Pick two specific **basaltic** rocks that were returned by Apollo 12 and document these samples in about 150 words each (remember Apollo 12 samples have number like 12XXX). Make sure to pick samples that have good age determinations. Please use your own words, do not just quote from the sources. For example state the size and mass of the sample in relation to a common object.

Please typeset your homework in at least a 12pt font.

For your each sample, make sure to include the following in your summary:

1. Sample Number
2. Sample size and mass in “common” terms
3. Describe where the sample was collected. Be as specific as possible.
4. How old is the sample (radioactive and exposure age).
5. Describe how the sample differs (in age and chemical composition) from the Apollo 11 sample **10022**. Pay particular attention to the amount of  $\text{TiO}_2$  and  $\text{FeO}$ .

**Due: Mon Feb 11th in class (−2% for every hour late)**

**Data Source:**

<http://www.lpi.usra.edu/lunar/samples/index.shtml#basalt>

**Apollo 12 Sample Collection Location Map:**

[http://www.astro.washington.edu/users/smith/Astro105/HW/Ap12\\_SampLocate.jpg](http://www.astro.washington.edu/users/smith/Astro105/HW/Ap12_SampLocate.jpg)