LAB EXERCISE 3 - IGNEOUS ROCK IDENTIFICATION

| Name: | Course ID: |
|---|---|

During this lab you are required to positively identify by name the igneous rocks given to you by your instructor and/or igneous sample sets using the procedure described under IDENTIFYING IGNEOUS ROCKS, especially table 2.2. You will complete the provided blank Igneous Rock ID Exercise Table in conjunction with your testing.

Materials needed:

- Professional Rock / Mineral Identification Kit (See above for ordering information)
- Set of Igneous Rocks included in the kit above
- Magnifying glass or hand lense (Included in kit)
- Table 2.2
- Figure 2.1
- Igneous Rock ID exercise tables
- Percentage Estimation Chart

Procedure:

1. Pick an unknown Igneous Rock sample from your kit (write down sample number or letter, if applicable). Follow the outline given under IDENTIFYING IGNEOUS ROCKS, especially in conjunction with table & figure 2.2. Write down the results in the blank Igneous Rock ID Exercise Table as you go.
2. Use a hand lense or magnifying glass to identify as many of the mineral grains and phenocrysts as possible.
3. Use two colors to complete the table. Mark in blue all the values you have obtained by your own measurements or observations. Write in black everything you have researched, copied or otherwise obtained by looking it up.
4. The fields above the *"IGNEOUS ROCK NAME"* row should be completed using ONLY OWN OBSERVATIONS / MEASUREMENTS.
5. The fields below the *"IGNEOUS ROCK NAME"* row should be completed using RESEARCH or FIGURE 2.1.

**IGNEOUS ROCK ID EXERCISE TABLES** **Name:**_____

*Complete using 2 colors. Mark your own measurements in **blue**. Mark researched or copied values in **black!***

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| PASTE IGNEOUS ROCK SAMPLE from KIT HERE: *(clear scotch tape)* | | | | | | | |
| Color: *light, intermed., or dark* | | | | | | | |
| Texture: *aphanitic, phaneritic, porphyritic, phenocrysts, etc.* | | | | | | | |
| Minerals: *list as many as you can identify and their estimated %* | | | | | | | |
| **IGNEOUS ROCK NAME:** | | | | | | | |
| Research: Intrusive / Extrusive: | | | | | | | |
| Research: Essential Minerals: | | | | | | | |
| Research: Accessory Minerals: | | | | | | | |
| Research: Approx. Silica content: | | | | | | | |
| Research: Approx. Formation Temp.: | | | | | | | |

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