**Igneous Rock Identification**

**Objective**: To identify Rocks using texture, color, and other visible features.

**Procedure**

1. Empty the box of rocks onto the table.
2. Look at the table below and describe the properties of each rock.
3. Find the rock and write the rock number in the column to the right. Place the rock back in the rock box.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Rock Name** | **Texture**(glassy/fine/coarse) | **Vesicular or****non – vesicular** | **Color**(light, dark, both) | **Intrusive/Extrusive** |
| Granite |  |  |  |  |
| Diorite |  |  |  |  |
| Obsidian |  |  |  |  |
| Rhyolite |  |  |  |  |
| Scoria |  |  |  |  |
| Basalt |  |  |  |  |

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

✓Check Point

1. How are igneous rocks formed? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. How can you determine if an igneous rock is **intrusive** or **extrusive**? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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1. How is the **size** of the mineral in an igneous rock relative to the **rate at which the molten rock material cools**? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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1. Which environment of formation would lead to a course textured igneous rock?

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1. Compare the **density of light colored igneous rocks** to the **density of dark colored igneous rocks**. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. What is **magma** called when it reaches Earth’s surface? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. What does **vesicular** mean? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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