Assessment Task for Stage 6: Preliminary

Subject: Earth and Environmental Science

THIS ASSESSMENT TASK CAN BE FOUND ON THE COLLEGE WEBSITE UNDER THE LEARNING AND TEACHING TAB

<table>
<thead>
<tr>
<th>Assessment Task No.</th>
<th>2</th>
<th>Date:</th>
<th>11 May 2015</th>
<th>Weighting</th>
<th>15 %</th>
</tr>
</thead>
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Submission Instructions

- This is an in-class task which will be completed during your lesson

- Penalty for non attendance
  - On the date of the assessment will immediately receive a 50% mark penalty of the achieved mark pending Illness/Misadventure certification.
  - On the day following the assessment will receive a zero mark pending Illness/Misadventure certification.

Outcomes being Assessed

P7 Identifies and describes the physical and chemical features of the environment
P14 Draws valid conclusions from gathered data and information
**TASK DETAILS**

1. **Description of the Task**

   You are asked to complete the following tasks on your own:

   - **Density Measurement** – Use the equipment provided to measure the density of the rock on your bench.
   - **Soil Test** – Use the key to identify the soil texture type of the soil sample provided.
   - **Rock Identification** – Identify each of the rocks provided. You may use the items provided (acid, hand lens and nail) to assist you in your identification.
   - **Geological map reading** – Answer questions by extracting the appropriate information from a geological map

   **Subject Specific Terms**
   - Texture – the proportion of sand, silt and clay in a soil
   - Density – the amount of mass per unit of volume

2. **Classroom Learning:**

   Students will be prepared to effectively complete this task through:
   - **Learning to (skills):**
     - Perform a soil texture test with the guidance of a key
     - Identify rocks by their appearance and physical and/or chemical characteristics
     - Extract information from a geological map
   - **Terms used in the assessing of this task:**
     - **Identify** – recognise and name
     - **Classify** – arrange in categories
     - **Describe** – provide characteristics and features
     - **Calculate** – determine figures/values
     - **Extract** – choose relevant and/or appropriate details
     - **Explain** – Make the relationship between things evident
Marking Criteria

Through the completion of this assessment task, you have demonstrated the ability to

<table>
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<tr>
<th>E (0-3) ELEMENTARY ACHIEVEMENT</th>
<th>D (4-6) BASIC ACHIEVEMENT</th>
<th>C (7-9) SOUND ACHIEVEMENT</th>
<th>B (10-12) HIGH ACHIEVEMENT</th>
<th>A (13-15) EXCELLENT ACHIEVEMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measure the mass to ± 5g of teacher’s measurement</td>
<td>Measure the mass to ± 0.5g of teacher’s measurement. <strong>AND</strong> Describe the correct method for measuring volume <strong>OR</strong> Correctly identify the components needed to calculate density</td>
<td>Measure the mass to ± 0.5g of teacher’s measurement. <strong>AND</strong> Describe the correct method for measuring volume <strong>OR</strong> Correctly identify the components needed to calculate density <strong>AND</strong> Correctly calculate density based on these measurements. <strong>In most measurements and calculations correct units are used</strong></td>
<td>Measure the mass to ± 0.2g of teacher’s measurement. <strong>AND</strong> Describe in detail the correct method for measuring volume <strong>AND</strong> Correctly calculate density based on these measurements. <strong>In all measurements and calculations correct units are used</strong></td>
<td>Measure the mass to ± 0.2g of teacher’s measurement. <strong>AND</strong> Describe in detail the correct method for measuring volume <strong>AND</strong> Correctly calculate density based on these measurements. <strong>In all measurements and calculations correct units are used and an appropriate level of accuracy (decimal places) is used.</strong></td>
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<tr>
<td>Identify a characteristic of the soil</td>
<td>Classify a texture classification out by three places on the key</td>
<td>Classify a texture classification out by two places on the key</td>
<td>Classify a texture classification out by one place on the key</td>
<td>Classify the correct texture classification as determined by the teacher.</td>
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<td>Correctly Identify 0 to 2 of the ten rocks</td>
<td>Correctly Identify 3 or 4 of the ten rocks</td>
<td>Correctly Identify 5 or 6 of the ten rocks</td>
<td>Correctly Identify 7 or 8 of the ten rocks</td>
<td>Correctly Identify 9 or 10 of the ten rocks</td>
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<td>Identify a feature on a geological map</td>
<td>Extract some geological information from a geological map. <strong>Relate geological features to their origin.</strong></td>
<td>Extract some relevant information from a geological map.</td>
<td>Extract most of the relevant information from a geological map.</td>
<td>Extract all of the relevant information from a geological map. <strong>Clearly explain how geological features originated.</strong></td>
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