Unit 4 Kilohonua & Kalawai: Pre-Test
Geology & Hydrology

DIRECTIONS: Write the letter of the correct answer in the blank on the LEFT. Use capital letters only (e.g. ‘A’ not ‘a’). 1 point given for each correct answer.

1. _______ The Hawaiian Islands were formed …
   a) over a hotspot
   b) by a conveyor
   c) through plate tectonics
   d) in the last 1,000 years

2. _______ Volcanoes that aren’t likely to explode violently are called...
   a) composite volcanoes
   b) tuff cones
   c) lava domes
   d) shield volcanoes

3. _______ The lines on a contour map shows ...
   a) roads, ridges and valleys as seen from above
   b) connecting points of equal elevation
   c) location of rift zones and dikes
   d) all of the above

4. _______ A kitchen sponge behaves like Hawaiian soil because it …
   a) absorbs and leaches moisture in the same way as dirt
   b) has both positive and negative charged ions (cations and anions)
   c) mimics the engineering and bearing capacity of basalt
   d) all of the above

5. _______ Hawai‘i water supply workers do water quality testing in order to …
   a) add chlorine to our tap water when it is unsafe to drink
   b) inform the public of safe and unsafe contaminants in the water supply
   c) obey the law
   d) all of the above
Unit 4 Post-Test

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Conceptual Learning & Alternate Assessment

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Directions: Write, speak or perform your answers as directed below.

6. Draw a contour map with 3 or more different land features created by a volcanic hot spot. Explain what your map shows (you may label the drawing and/or verbally explain it to the teacher). (3+ points)

7. Your teacher will give you and a partner 3 soil samples. Compare and analyze the samples then create a visual and/or written soil profile of each. Assess the possible value of each type of soil for various purposes. Share your methods and findings with another team of students and the teacher by describing your soils profiles and answering their questions. You may begin this activity on one day and complete it the following class. (5+ points)