

SLO #1 Basic Knowledge Students can identify the salient features of the basic concepts of physical geography. (This includes the ability to recall the definitions of the specialized vocabulary of physical geography.)

- • SLO #2 Relationship with Their Environment Students recognize and can accurately articulate how their physical environment affects humans' lives and how human activities affect their physical environment.

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SLO #3 Nature of Science Students can identify the key elements of the scientific method (hypotheses, tests, observations, conclusions/interpretation of observations) in popular accounts of scientific research in magazines, newspapers, etc.

1.

Exam/Test/Quiz The scientific method was used to establish evidence for the existence of Pangea.

The students used a map and fossil evidence to apply the scientific method to statements given. Ten statements were listed in a multiple choice format applying the scientific method.

1. 2013-14 (Spring 2014) Standard Not Met 05/23/2014

10 students total 9858 Geog 1 6:00pm – average 3.5/10, 1 question at 90% (#7) and 1 question at 80% (#2), all remaining questions were problematic for all students.

It is important for the intent of the statement to be recognizable by students. For example in statement 2, it was referring to the hypothesis of the scientific method since no one has lived long enough to observe continents move over time to their present positions. Statement 7 implies a test of the scientific method because the word "searched" is used. Students were not successful on all other questions because they may have been confused to what part of the scientific method the statement referred. Instead of presenting information on the parts of the scientific method, scores may be improved if the students create their own experiments identifying each part of the scientific method. This should be performed as a guided practice.

[more]

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Actions

- **Action** After direct instruction of the scientific method, active learning will be used where student will generate everyday examples of the scientific method. Students will be required to complete 4 to 6 hours of service learning to do sometime of work where humans affect the earth and how the earth affects humans. Following this, the groups will conduct an oral presentation in class and complete and submit a journal of their experiment/research work. When each group

presents their findings, the rest of the class will work to identify the components of the scientific method. (02/05/2016)

Action Category Teaching Strategies

1. Follow-Up

1. Assignment

1. Related Documents