Rubric 1: Rubric 1 evaluates student responses to Question 1.

Emerging	Developing	Proficient	Advanced
Student creates a model that partially or inaccurately identifies the stages of the rock cycle process, but does not provide an explanation of the processes involved, nor the rock types created.	Student creates a model that accurately identifies the stages of the rock cycle process, but does not name the rock types created and gives little or no explanation of the processes involved.	Student creates a model that accurately identifies the stages of the rock cycle process, partially or inaccurately names the rock types created, and provides a general explanation of the processes involved.	Student creates a model that accurately identifies the stages of the rock cycle process, correctly names the rock types created, and provides a detailed explanation of the processes involved.
OR			
Student response is missing.			

Rubric 2: Rubric 2 evaluates student responses to Question 2.

Emerging	Developing	Proficient	Advanced
Student inaccurately identifies the name of the plate boundary and incompletely or inaccurately explains the process of how volcanoes form.	Student accurately identifies the name of the plate boundary and incompletely or inaccurately explains the process of how volcanoes form.	Student <b>accurately</b> identifies the name of the plate boundary and <b>generally</b> explains the process of how volcanoes form.	Student accurately identifies the name of the plate boundary and accurately and specifically explains the process of how volcanoes form.
OR			
Student response is missing.			

Rubric 3: Rubric 3 evaluates student responses to Question 3.

Emerging	Developing	Proficient	Advanced
Student inaccurately identifies the volcano posing the greatest threat and in need of monitoring.  OR  Student accurately identifies the volcano posing the greatest threat and in need of monitoring, but does not provide reasoning.  OR  Student response is missing.	Student <b>accurately</b> identifies the volcano posing the greatest threat and in need of monitoring, and provides <b>general</b> knowledge and reasoning in their recommendation.	Student <b>accurately</b> identifies the volcano posing the greatest threat and in need of monitoring, and provides <b>partial</b> knowledge and reasoning in their recommendation.	Student accurately identifies the volcano posing the greatest threat and in need of monitoring, and provides detailed knowledge and reasoning in their recommendation.

Rubric 4: Rubric 4 evaluates student responses to Question 4.

Emerging	Developing	Proficient	Advanced
Student incompletely and/ or inaccurately identifies the types of data collected and the data-collection devices used by volcanologists to predict volcanic eruptions. Student does not provide reasoning for how volcanologists know when to increase or decrease the warning level. Student response is missing.	Student accurately and incompletely identifies the types of data collected and the data-collection devices used by volcanologists to predict volcanic eruptions. Student provides limited to no reasoning for how volcanologists know when to increase or decrease the warning level.	Student accurately and incompletely identifies the types of data collected and the data-collection devices used by volcanologists to predict volcanic eruptions. Student provides partial and accurate reasoning for how volcanologists know when to increase or decrease the warning level.	Student accurately identifies the types of data collected and describes the data-collection devices used by volcanologists to predict volcanic eruptions. Student provides thorough cause-and-effect reasoning for how volcanologists know when to increase or decrease the warning level.