
Short Constructed Response Scoring Guide

Sample

General Information

Grade 8 Science Prompt

Prompt: The satellite image shows the largest glacier in Alaska. The dark areas indicated by arrows are moraines, which are composed of many large and small rocks and contain dirt and silt.



How are the moraines formed **AND** why are there several moraines?

Look at the image carefully. Then enter your answer in the box provided.

Item-Specific Rubric

Score: 2

The student responds that the moraines formed when the glacier advanced and carried eroded materials along the bottom and edges of the advancing glacier, **AND** there are several moraines due to the movement of different layers at different times.

Score: 1

The response provides only half of the correct details.

Score: 0

The response is incorrect or irrelevant.

u think that Moraines when the glacier explodes a lot of dirt goes into the glacier. And why there's so many of them is becuase dirt and silt that breaks throught the whole glacier.

No accurate description of how moraines form is given () and the explanation of why there are multiple moraines is too vague to demonstrate a partial understanding (). While the explanation addresses dirt and silt, no attempt is made to connect that to the formation of multiple moraines.

Moraines are formed by ice and water and there is alo because its super cold and because theirs alot off water there.

An incorrect description of how moraines form is given () and no correct explanation is given to explain why there are several moraines ().

I think they are formed when two different colored liquids are comined or when two different liquids meet.

The description given is entirely incorrect and irrelevant ([combined]).

I'd say that the glacier has passed throught some land masses which evidently destroys a part of the land masses. The dirt rocks and silt are just remnents of the eroded areas.

Score Point 1

This student correctly describes how moraines are formed (*formed from the movement of the glacier, which weathers down surrounding rock and takes it along with it*). However, they did not address the second part of the prompt, so the student does not demonstrate more than a partial understanding of the stimulus material.

The moraines are formed by consist weathering and erosion from the movement of the glacier. There are several moraines because of the gigantic size of the glacier.

Score Point 1

This student identifies how moraines are formed (*consist weathering and erosion from the movement of the glacier*) but does not address the products of the weathering and erosion, such as rocks and sediment, and therefore is too general of a description to demonstrate more than a partial understanding. The attempt to explain why there are multiple moraines is vague (*because of the gigantic size of the glacier*). The student does not explain how the size of the glacier would lead to several moraines.

Score Point 2s

Moraines are formed by the glacier picking up dirt and soil and dropping them off somewhere else. There are multiple moraines because this may have happened multiple times.

Score Point 2

This student correctly describes how moraines are formed (*by the glacier picking up dirt and soil and dropping them off somewhere else*) and explains why there are multiple moraines (*because this may have happened multiple times*). The student demonstrates a complete understanding of the stimulus material.

My infrence is that the glacier has pushed aside the dirt, rocks, and silt to make all of these moraines. I think that there are many moraines because The glacier pushed the amounts of rocks and silt at different times.

Score Point 2

This student correctly describes how moraines are formed (*the glacier has pushed aside the dirt, rocks, and silt to make all of these moraines*) and explains why there are multiple moraines (*The glacier pushed the amounts of rocks and silt at different times*). The student demonstrates a complete understanding of the stimulus material.

Moraines are formed when glaciers pass through and built up sediments. The reson there are several moraines might be because there could have been previous moraines built up from a previoud glacier going through before.

