

Feedback Activity

Learning Assessment #5 – Geologic Time

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Feedback activities are completed in class on the same day that the graded learning assessments are returned to students. These activities provide an opportunity for students to reflect on their understanding of the concepts covered in the associated learning assessment. They are also an opportunity for the instructors to receive feedback from their students and learn more about students' understanding (and misunderstandings) through face-to-face interaction.

The feedback classes typically begin with a short introduction of the activity by the instructor, and an overview of the common mistakes that were identified in the learning assessments. With the instructor's introduction and the grading checklist serving as a guide, students complete the feedback activity. These are then handed in for the instructors to review and identify the direction for future learning activities.

Note: This feedback activity has two parts: 1) the usual activity where students review their completed learning assessments and 2) a moving forward activity that expands on the concepts covered in the learning assessment. A grading rubric for both parts and an answer key for the moving forward activity are included in this package.

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Last Name: _____ First Name: _____ ID: _____

Learning Assessment #5 Feedback Activity: Geologic Time

NOTE: IF YOU HAVE NOTHING TO CORRECT IN A SECTION OF YOUR LEARNING ASSESSMENT, DRAW A LINE THROUGH THE CORRESPONDING SECTION ON THIS ACTIVITY SHEET.

Part 1: Sequence of Events

Review your Learning Assessment using the checklist and answer key. If you had some of the events out of order answer the following questions for the key event(s) that was out of sequence in the space provided below.

1. Identify the key event that was out of order (i.e. the one that caused the sequence to be off) and where in the order it should be.
2. Explain your reasoning for why you placed the event in the order you did.
3. Describe where that event should be in the correct sequence.

Out of order event	
Reasoning	
Correct sequence	

Out of order event	
Reasoning	
Correct sequence	

Part 2: Bracketing Geologic Events

Review your Learning Assessment Part 2 and identify any mistakes you made with bracketing. In the space provided below explain what reasoning led you to your incorrect answer.

Part 3: Explanation of numerical age bracket for Ssb.

Review Part 3 of your learning assessment. Identify any areas that were missing or incorrect in your response. In the space provided below explain the following:

1. What aspect of the answer was missing or incorrect (i.e. principle was missing or incorrect)?
2. What the correct or missing information should be. Please use your own words for this question.

Last Name: _____ First Name: _____ ID: _____

Learning Assessment #5 Moving Forward Activity: Geologic Time

Make a sketch of what the area would have looked like during ONE of the two time periods listed below. Make sure you label all of the units and the unconformities in your sketch. Make sure you indicate if the ground surface at the time is underwater or exposed at the surface.

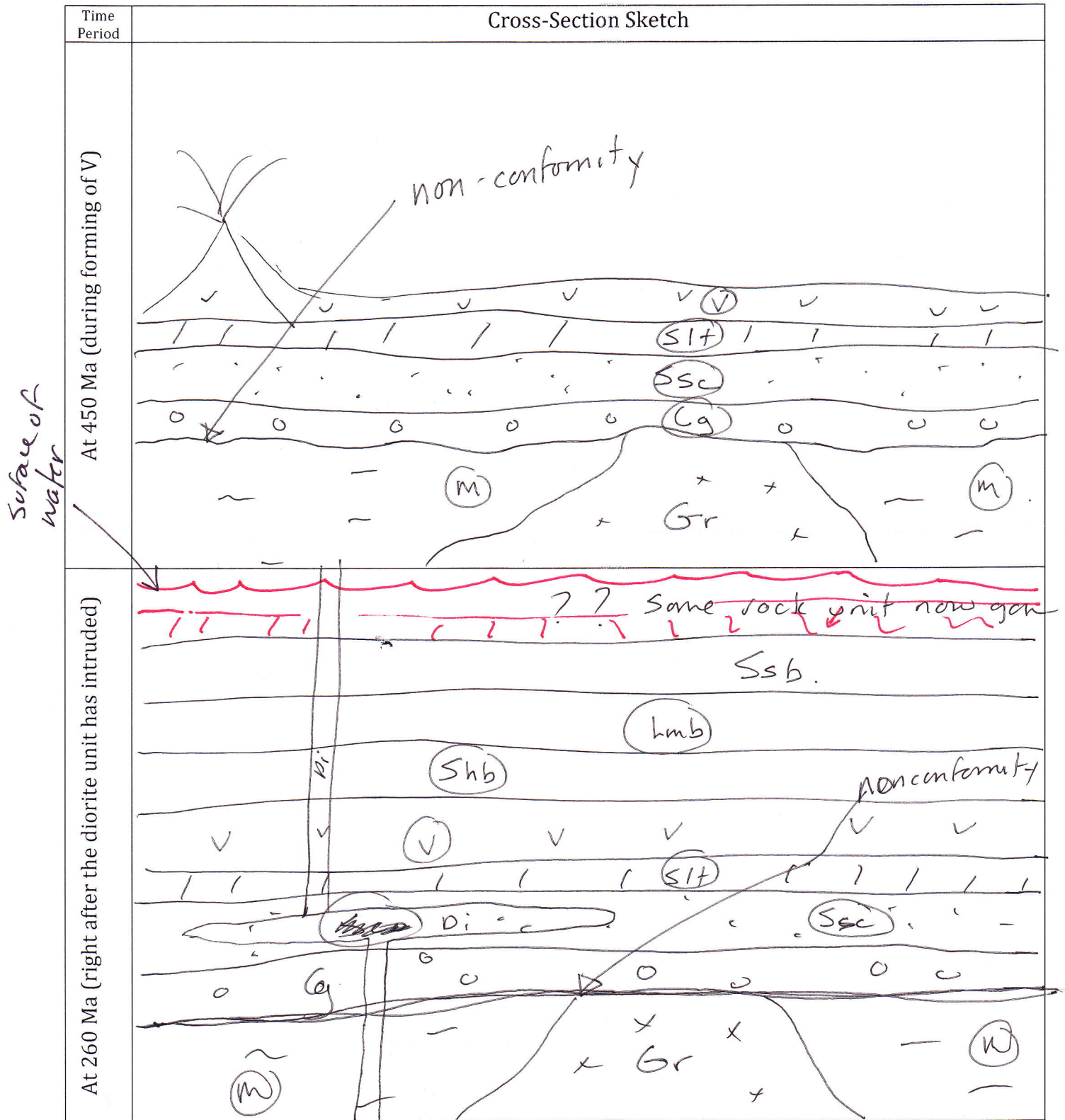
Time Period	Cross-Section Sketch (Choose 1 of the time windows below)
At 450 Ma (during forming of V)	
At 260 Ma (right after the diorite unit has intruded)	

Name: Key

ID: _____

Learning Assessment ☐ Moving Forward Activity: Geologic Time

Make a sketch of what the area would have looked like at the two time periods listed below. Make sure you label all of the units and the unconformities in your sketch. Make sure you indicate if the ground surface at the time is underwater or exposed at the surface.



Learning Assessment #5: Feedback Activity Rubric

Area	SCORE			
	Exemplary (3)	Adequate (2)	Needs Work (1)	Non Existent (0)
Feedback Activity: Learning Assessment Misunderstandings	Identifies the areas of misunderstanding and/or issues with completing the learning assessment that are reflected in the feedback and has indicated how that misunderstanding / issue would be corrected.	Misses 1 or more important areas of misunderstanding and/or issues with completing the learning assessment that are reflected in the feedback and has indicated how that misunderstanding / issue would be corrected. Some key areas are missing.	Identifies aspects of misunderstanding but misses 1 or more important issues with completing the learning assessment that are reflected in the feedback. Has not identified how misunderstanding / issue would be corrected.	Does not identify any misunderstandings and/or issues with completing the learning assessment even though issues exist.
Moving Forward Activity: Back in time drawing	<p>Drawing has all units that should be present for the time period chosen.</p> <p>Drawing has nonconformity drawn and labeled.</p> <p>Units in the drawing are not tilted</p> <p>Time period 260 Ma indicates that the surface is likely underwater.</p> <p>Time period 450 Ma shows underwater or above ground eruption of andesite.</p>	<p>Drawing has 1-2 mistakes in it, which could include the following:</p> <ul style="list-style-type: none"> - missing the nonconformity - rock layers are tilted - some rock layers are missing - above water or underwater is not addressed 	Drawing has 3 or more mistakes or missing units / features	Drawing was not completed

Total: