

Grading Checklist

Learning Assessment #5 – Geologic Time

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Learning assessments are graded using a checklist-style rubric. The purpose of the checklist is to clearly and concisely show students where they lost marks on the assignment and why. When students are reviewing their work they initially focus on the areas they got incorrect as identified on the checklist.

The checklists also help to ensure that grading is transparent to the students. They help maintain consistency amongst graders, which may be a challenge in large courses with multiple instructors/teaching assistants marking the same assignment.

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GLGY 201 LEARNING ASSESSMENT #5 (GEO TIME) GRADING CHECKLIST

Part 1: Order of Events (Oldest #1 to Youngest #14) (14 pts)

- #1 Schist
- #2 Granite
- #3 Nonconformity
- #4 Formation of conglomerate (Cg)
- #5 Formation of Ssc (sandstone c)
- #6 Formation of SlT
- #7 Formation of Andesite
- #8 Formation of Shb
- #9 Formation of Lmb
- #10 Formation of Ssb
- #11 Intrusion of Diorite*
- #12 Folding of Paleozoic and Precambrian Rocks*
- #13 Formation of angular unconformity
- #14 Formation of SSa, Lma and Sha

Part 2: Age Bracketing (7 pts)

- Non-conformity oldest possible age – 600 Ma
- Non-conformity youngest possible age – 471.8 Ma (or 488.3)
- Non-conformity time gap -

- Folding oldest possible age (260 Ma)
- Folding youngest possible age

- Formation of SSb oldest possible age
- Formation of SSB youngest possible age

Part 3: Reasoning for Age Bracket of Ssb (6 pts)

- Indicates that Ssb must be younger than Lmb
- Principle of Superposition stated (on top of Lmb)
- 307 is oldest possible age
- Indicates that Ssb is cut by diorite and therefore older
- Indicates that Diorite is 260 Ma
- Principle of cross-cutting relationships stated

Total for LEARNING ASSESSMENT #5: _____ / 27

*It is possible to argue that the diorite could have intruded after folding; arguing that it followed the already folded layering in the rocks it's intruding. In this case #11 and #12 event could be reversed and still correct. If this option is chosen then the folding age bracket would be between 260 Ma and 311.7 Ma.