**GLG 100: Introduction to Earth Science**

**Geological Disaster Paper**

Directions: Find three Internet or written or television accounts of ONE recent or historical geological disaster (e.g., deadly tsunami, killer earthquake, destructive volcanic eruption, devastating landslide, etc.) and write about it.

Paper should be typed, double-spaced with one-inch margins and 12-point font.

Things that should be included in the paper:

* Introduction that includes a description of geographic location of the disaster (including map/images). Note: maps and other figures should be labeled as Figure 1, Figure 2, etc. and should be referenced in the text.
* In the next paragraphs, include:
	+ Details of destruction (i.e. lives lost, property destruction, etc.)
	+ Geologic setting for disaster (e.g. tectonic setting, if it applies)
	+ The specific causes of the disaster
	+ Expectations of something similar happening in the area in the future
	+ Speculation about how, using the science of geology, destruction could have been avoided or could be avoided in the future (e.g. relocation of town, installation of monitoring equipment, etc.)
* References page using APA citation guidelines - see website for examples http://owl.english.purdue.edu/owl/resource/560/10/

Papers will be submitted electronically on Blackboard, and will go through a plagiarism checker. Be sure that you are not copying and pasting from websites, except for a few lines. It is unacceptable to copy large chunks of information, even if you do cite the reference.

Late submissions will be penalized 10 points/day.

**Grading Criteria and Points**

Introduction= 4

Geographic location & maps= 7

Destruction details= 7

Geologic/tectonic setting= 7

Causes of the disaster= 7

Future expectations= 7

How to avoid disaster= 7

References= 4

Total points possible= 50

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Criteria** | **Exceeds Expectations** | **Proficient** | **Acceptable** | **Needs Improvement** | **Missing** |
| Introduction | 4 pointsStudent provides excellent introduction to the geological disaster. | 3 pointsStudent provides excellent introduction to the geological disaster, but some important details are missing, but still provides data from research.  | 2 pointsStudent provides acceptable introduction to the geological disaster, but some important details are lacking and fails to provide data from research. | 1 pointStudent provides acceptable introduction to the geological disaster, but critical details are lacking | 0 pointsStudent fails to provide introduction. |
| Geographic location/maps | 7 pointsStudent provides excellent description of geographic location and maps are clear and labeled. | 5 pointsStudent provides excellent description of geographic location and maps are clear and labeled, but some important details are lacking, but still provides data from research. | 3 pointsStudent provides acceptable description of geographic location and maps are clear and labeled, but some important details are lacking and fails to provide data from research. | 1 pointStudent provides acceptable description of geographic location and/or maps are clear and labeled, but critical details are lacking | 0 pointsStudent fails to provide both geographic description and maps. |
| Destruction details | 7 pointsStudent provides excellent description of destruction details | 5 pointsStudent provides excellent description of destruction details but some important details are lacking, but still provides data from research. | 3 pointsStudent provides acceptable description of destruction details but some important details are lacking, but some important details are lacking and fails to provide data from research. | 1 pointStudent provides acceptable description of destruction details, but critical details are lacking | 0 pointsStudent fails to provide destruction details. |
| Geologic/tectonic setting | 7 pointsStudent provides excellent description of the geologic/tectonic setting. | 5 pointsStudent provides excellent description of the geologic/tectonic setting but some important details are lacking, but still provides data from research. | 3 pointsStudent provides acceptable description of the geologic/tectonic setting, but some important details are lacking, but some important details are lacking and fails to provide data from research. | 1 pointStudent provides acceptable description of the geologic/tectonic setting, but critical details are lacking | 0 pointsStudent fails to provide a description of the geologic/tectonic setting. |
| Causes of disaster | 7 pointsStudent provides excellent description of the causes of the disaster. | 5 pointsStudent provides excellent description of the causes of the disaster but some important details are lacking, but still provides data from research. | 3 pointsStudent provides acceptable description of the causes of the disaster, but some important details are lacking, but some important details are lacking and fails to provide data from research. | 1 pointStudent provides acceptable description of the causes of the disaster, but critical details are lacking | 0 pointsStudent fails to provide a description of the causes of the disaster. |
| Future expectations | 7 pointsStudent provides excellent description of future expectations. | 5 pointsStudent provides excellent description of future expectations but some important details are lacking, but still provides data from research. | 3 pointsStudent provides acceptable description of future expectations, but some important details are lacking, but some important details are lacking and fails to provide data from research. | 1 pointStudent provides acceptable description of future expectations, but critical details are lacking | 0 pointsStudent fails to provide a description of future expectations. |
| How to avoid disaster | 7 pointsStudent provides excellent description of how to avoid disaster. | 5 pointsStudent provides excellent description of how to avoid disaster but some important details are lacking, but still provides data from research. | 3 pointsStudent provides acceptable description of how to avoid disaster, but some important details are lacking, but some important details are lacking and fails to provide data from research. | 1 pointStudent provides acceptable description of how to avoid disaster, but critical details are lacking | 0 pointsStudent fails to provide a description of how to avoid disaster. |
| References | 4 pointsProvides at least 3 sources, citations within the text, and all maps/figures are properly cited in a caption. | 3 pointsProvides at least 3 quality sources but citations are missing from text or maps/figures are not properly cited in a caption. | 2 pointsProvides 3 sources, but citations are missing from text and maps/figures are not properly cited in a caption. OR Provides 2 sources, citations included in text and maps/figures properly cited in caption. | 1 pointProvides 2 sources from quality sites, but citations are missing from text and maps/figures are not properly cited in a caption. OR Only 1 sources is provided with proper citations for maps/figures and within text. | 0 pointsDid not attempt or no sources supplied |