

# Location Report

Report on local geology

## Purpose

Demonstrate your understanding of geologic features and processes.

## Overview

The character of a place is determined in large part by its geology. You will report on the geologic setting of your chosen location in enough depth to explain not just how the location's geology was shaped, but how the geology shapes the location.

## Graded Components

**Draft:** Show that the report progresses appropriately.

**Feedback:** Describe what you found in your group mates' drafts and identify what you suggested to improve them.

**Report:** Describe your location's tectonic context and surface landforms. Explain how its landscape was formed.

**Oral Presentation:** Describe the geology of your location to your classmates.

## Dates and Deadlines

Sep 10	Project introduced
Sep 14	Location selections due
Sep 24	Drafts due, in-class review
Sep 28	Draft feedback due
Sep 30	Reports due, class presentations

## Scoring

### Report Draft (10 points)

Show your progress toward a finished product. The day that the drafts are due, students will review and discuss group members' drafts.

+5	Contains all sections (landforms, tectonic setting, hot spot, special feature).
+3	Copies of the draft are provided for instructor and group members.
+2	Draft is clear and legible.

### Feedback on classmates' Drafts (10 points)

Provide feedback on your group mates' rough drafts. Identify errors and omissions, and offer constructive suggestions for improving the content and its presentation. It is not necessary to address specific grammar or usage issues—these are *rough* drafts. Provide copies of your feedback to your classmate and instructor.

The feedback report you submit to me contains separate write-ups for each draft that you evaluate. It does not need to be long or formal. It need only be a list of the specific problems you found and your specific suggestions to correct them.

+2	Identifies all errors and omissions of content.
+2	Identifies all errors and omissions of organization and presentation.
+2	Provide copies to reports' authors.
+4	Offers constructive suggestions for all problems identified

Since you will provide feedback on several group members' reports, the score you receive for this item will be average of their scores.

### Final Report (30 points total)

Describe the area's large-scale features and the processes that made it what it is today.

#### Landforms (10 points)

Identify the current land forms (mountain ranges, valleys, rivers, oceans, bays, glaciers, plains, deltas, volcanoes, lava flows, basins, lakes, craters, fault scarps, dune fields) of your area. Describe how they are placed in the area.

+5	Identifies and describes the local land forms.
+2	Describes the locations of the features.
+3	Contains a map showing the locations of the features.

The score for this section of the report is the average of the scores for the landforms of the location. Omitting a prominent landform yields a zero for that feature.

#### Tectonic setting (5 points)

Identify the location's tectonic plate and its present tectonic activity. Where is the nearest plate margin and how close is it to the location? What kind of margin is it, what processes occur there, what other plates are involved, and which plate does what?

+1	Identifies tectonic plate correctly.
+1	Correctly describes location on plate.
+1	Identifies nearest plate boundary and the adjoining plate(s) there.
+2	Identifies the type of boundary and the behavior of each plate there.

**Hot spot (5 points)**

Where is the nearest hot spot? What surface features are associated with it? What volcanic or other thermal activity is associated with the hot spot?

+1	Identifies hot spot.
+2	Correctly describes associated surface features.
+2	Correctly describes associated thermal activity.

**Special feature (10 points)**

Report in more detail on one of the landscape features, or on a geological feature or event in the area, such as a volcanic eruption, fossil find, or mineral deposit.

+2	Names the feature.
+3	Describes the feature.
+5	Relates an important or interesting characteristic of the feature.

**Oral Presentation (10 points)**

Identify the tectonic plate, describe the creation of the prominent local land forms, and describe the special feature on which you reported.

Your presentation shall be understandable and factually correct. Speak audibly and with animation, and maintain eye contact with your audience.

+2	Locates region on plate.
+2	Identifies and describes prominent local land forms.
+1	Identifies and describes specific feature.
+1	Identifies an important or interesting fact about the feature.
+2	Presentation is understandable, organized, and concise.
+1	Speaks clearly and audibly.
+1	Conveys enthusiasm.