

Laboratory Final Study Guide

Required Skills

Topographic Maps and Volcanoes:

Find the location of a feature using the Township and Range system

Determine the elevation of a feature using contour lines

Determine the relief of an area covered by the map

Identify the symbols used on topographic maps

Define the scale used on a topographic map

Determine the latitude and longitude of a point on the map

Identify the type of volcano using aerial photographs or topographic/geologic maps

Indicate the composition of a volcano using geologic maps or aerial photographs

Explain the type and relative intensity of an eruption

Faults and Folds:

Distinguish between strike-slip, normal and reverse faults

Determine the type of fault presented on maps, aerial photographs, or plaster models

Determine the order of movement of faults or folds based on cross-cutting relationships

Identify types of folds from exposures on a plaster model, aerial photograph or map

Geologic Maps:

Interpret the meanings of structural symbols like strike and dip, anticline and syncline.

Identify and age and composition of rocks on a geologic map

Model the history of an area based on the geology exposed on a geological map

Rivers and Streams:

Identify features of stream eroded landscapes on maps or plaster models

Identify features of stream deposition on maps or plaster models

Determine the gradient of a river using a geological map

Interpret the relative level of tectonic activity in an area based on patterns of river erosion

Glacial Landscapes:

Identify features of glacially eroded landscapes on maps and plaster models

Identify features of glacial deposition on maps and plaster models.

Coastlines:

Identify features of coastal erosion and deposition from aerial photographs and maps

Determine the consequences of changing sand flow patterns on a beach

Identify whether a coastline is submergent or emergent.