

Name: _____

Maps and Landforms

Each station has one or more maps. Examine the maps to answer all of the questions. You may do the stations in any order.

Palmyra Quadrangle

Find the town of Palmyra. Directly to its south is Bear Hill.

1. What is Bear Hill's relief (elevation change bottom to top)?
2. What is Bear Hill's dimension the long way (length)?
3. What is Bear Hill's dimension the short way (width)?
4. The view shown on the map is from above. Draw the profile of Bear Hill as it would appear if you look at it from the West. Draw another profile of Bear Hill as it would appear from the North. Use the same scale as the map.

from the west

from the north

Limestone Quadrangle

1. The water plant is at the confluence of Silver Spring Brook and Limestone Stream. What is its elevation?
2. The sewage plant is approximately where Long Road crosses Limestone Stream. What is its elevation?
3. Where is our school? What is its elevation?
4. Where is the steepest road you can find on the map?
5. Where is the highest elevation on the map?
6. Where is the lowest elevation on the map?
7. Which way does Limestone Stream flow?
8. Stream channels on the map tend to be roughly straight. Are there any directions in which they tend to run?

Bonner Springs Quadrangle

This area contains a prominent river.

1. There are two ATSF rail lines and one UP line on this map. Why do you think the lines are routed where they are? (What is different about the terrain around the rail lines and the terrain in the rest of the region?)
2. Where is the flattest region on this map?
3. Where is the steepest slope on the map?

Mount Whitney Quadrangle

Mount Whitney is the highest point in the 48 contiguous United States. Note the many lakes along the streams.

1. What is the contour interval on this map?
 2. Find the border between Inyo County and Tulare County. What is this border, geographically?
 3. Near the county border are several round blue features with contour lines cutting across them. What could they be?
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2. What is the profile of the landscape along a transect from the peak of Mount Whitney to the peak of Mount Hitchcock? Sketch what you think it looks like.

Donaldsonville Quadrangle

1. What is the contour interval on this map?
2. From the Lapice Oil Field northwest to Donaldsonville and the Mississippi river, how does the elevation change?
3. In general, how does the elevation change as you go *away* from the Mississippi river?
4. There are several small streams in the center of the map. Do they flow toward or away from the Mississippi river?

Ickesburg Quadrangle

1. Most of the roads in this area run SW–NE. Why?
2. Road 74 runs approximately NW–SE here, but it is not straight. What determines its route?
3. How much does Buffalo Creek change its elevation from where it enters the map at the west to where it leaves at the east?
4. Sketch the general pattern of stream courses. Include the main streams and tributaries of Panther Creek, Raccoon Creek, and Buffalo Creek, including Little Buffalo Creek.

Mount Baker Quadrangle

1. The lower half of the map depicts Mount Baker. What is the mountain's basic shape?
2. What kind of volcano is Mount Baker?

Mount Katahdin Quadrangle

Does this landscape resemble any of the others on the topographic maps in this lab? Which does it resemble most closely? Explain your choice.

Passadumkeag Quadrangle

This map depicts a marshy area.

1. What is the elevation change of Cold Stream between its source at Cold Stream Pond and its confluence with the Passadumkeag River?
2. Describe the shape of the course of Cold Stream.
3. The Enfield Horseback is a feature running north-south through this map. What sort of topographic feature is it? (What is its shape? Your answer should not include the word "horseback.")
4. The Passadumkeag River crosses the Enfield Horseback in the middle of the map. What is the shape of the Horseback at that crossing?

Landforms and Drainage of the 48 States

1. Describe the general appearance of the Appalachian Mountains, which run in a wavy path along the eastern part of the country.

2. Compare the general appearance of the Ouachita Mountains (south-central US) to the Appalachians.

3. Compare the appearance of the mountainous area south of the Snake River Plain to the mountains to its north and east.

4. Describe the prominent features of the coastlines of the Atlantic Ocean and Gulf of Mexico. Contrast with the coastline of the Pacific Ocean.

5. Before it defines the border between Texas and Mexico, the Rio Grande flows almost due south from Colorado through New Mexico, beginning in the San Luis Valley. Just south of the San Luis Valley, find the Jemez Mountains. Describe the shape of this range.

The western part of the country is very mountainous, with three notable exceptions. Describe the appearance and form of these four relatively flat areas:

6. The Great Salt Lake Desert.

7. The Snake River Plain.

8. The Columbia Basin.

9. California's Central Valley.