

Modeling and Mapping Topography Worksheet

Data Table

Part II. Analyzing a Topographic Map

Sample Topographic Map Letter _____

Symbols

Contour Interval _____

Index Contour Value and Location _____

	Location	Max and Min Elevation Levels (ft)
Steep Hillside		
Gentle Sloping Area		
Valley Area		

Part III. Building 3-D Contour Models
Model 1

	Sketch
Gentle Slope	
Steep Slope	
Valley	

Model 2

	Sketch
Gentle Slope	
Steep Slope	
Valley	

Model 3

	Sketch
Gentle Slope	
Steep Slope	
Valley	

Post-Lab Questions

Part I

1. What features found on a topographic map may not be represented by an actual symbol?
2. What other types of symbols not used in this activity are found on topographic maps? Sketch and label at least two examples.

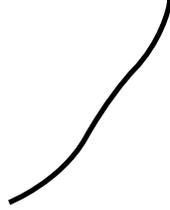
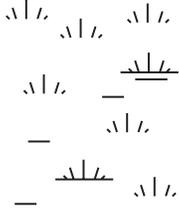
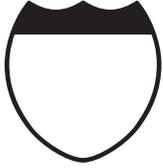
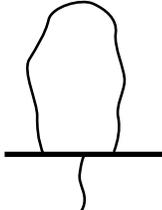
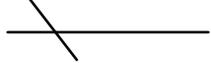
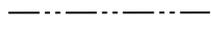
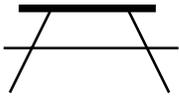
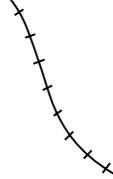
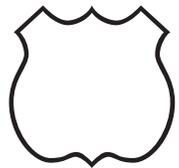
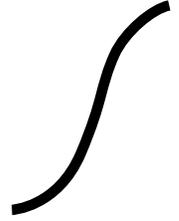
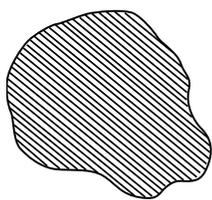
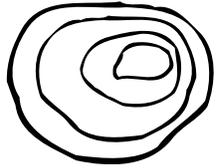
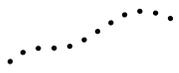
Part II

3. What type of topography is indicated by contour lines that are very close together? By contour lines that are far apart? How do contour line spacing and contour line intervals compare?
4. Why do contour lines never intersect?
5. In your own words, describe the terrain represented on the sample map.
6. Describe the terrain seen from Point A to Point B.

Part III

7. Which model has the gentlest slope?
8. How do the valley formations vary from Model 1 and Model 3?
9. Suppose a river is flowing through the valleys of Model 1 and Model 2. Which river would most likely flow more quickly? Why?
10. Given that the contour interval for model 1 is 50 feet and that the bottom foam layer of this model is at sea level, what would be the elevation of the top foam layer?
11. Where would you build a house on each of the three models? Explain why. Draw sketches if necessary.

Common Topographic Map Symbols Worksheet

Map Symbol Terms

Major Highway

Woodland

Picnic Ground

Lake

State Park/Recreational Area

Bridge

Road or Street

Scenic Route

Campground

Concrete Dam

Railroad

Contours

U.S. Route

Marsh/Swamp

Open Pit, Mine, Quarry

Airport/Landing Strip

Historical Site

Building

Interstate Route

State Boundary