Unit Activities: Isoline Maps

Block:

Unit Objectives

Draw isolines on a field map. Create topographic profiles. Interpret topographic maps. Calculate the gradient of a property on a field map.

Notes

2	Topographic Maps A
3	Topographic Maps B
4	Gradient
5	Topographic Profiles
	Base Assignments
	(underlined assignments are mandatory)
	Assignment 1: Due / /
6	Lab: Drawing Isolines: (5 points- lab)
7	Assignment 2: Due / / Choose 5 points Go to the Mapping Earth Unit on the class web site and follow the Current US Air Pressures <u>or</u> Current US Temperatures
7	links in order to get the current US pressure <u>or</u> temperature map. Draw the isobars using an interval of 4mb or the isotherms using an interval of 10° F: (5 points- lab) challenging! You may receive extra credit for this assignment.
8 9	Complete "Additional Isoline Maps": (5 points- lab) Make an Isotherm Map: (5 points- lab) measure the temperature from at least 10 points in the classroom or a room at home. Record the temperatures on a map of the room and draw isotherms using an interval of 1° F. Open a window to create a temperature gradient. See the teacher for a thermometer.
10	Assignment 3: Due / / <u>Construct a topographic map from a 3-D model:</u> (5 points- lab)
11	Assignment 4: Due / / Choose 5 points <u>Rosendale Quadrangle Questions:</u> (5 points- lab)
	Assignment 5: Due / / Choose 6 points (oral defense required)
12	Book Work: (3 points) read Topographic Maps on Pp. 33-36 and complete study guide 2-2.
13	Flash Cards: (3 points) create flash cards using the following words- contour interval, contour line, gradient, topographic profile, depression contours, isolines, scale, elevation, field value. The flash cards should be created out of index cards and include the word and definition on one side and a neat color drawing or diagram on the other side of the card.
14	Concept Map: (3 points) create a map using the following words- contour interval, contour line, gradient, topographic
15	profile, maps, depression contours, isolines, scale, elevation, field value Web Site Activity: (3 points) go to the Mapping Earth Unit on the class web site and follow the "How Are Landforms Represented on Flat Maps? link. Complete the questions found on the worksheet.
	Assignment 6: Due / / Choose 5 points
16 17	
18	Assignment 7: Due / / Worksheet- Gradient Review (3 points)
19	Assignment 8: Due / / Vertical Exaggeration: (3 points- lab)

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