Jnit	A Topo Map in 3-D	me		
0	n none 2 of this nonen you will find on onlose down to service and	Date	Per	
Un Yo	To u will be using this map to make a three dimensional model of the land $\alpha$	d around Bria	cliff High School.	
The ele	he number of people in your group will be determined by the number of evation) to be used. The procedure below should make this clear.	f contour lines	s (lines of equal	
	A Topogrphic Map: The view fro	om Above		
0 m	30 m 60 m 40 m 50 m Pivet 20 m	A Pi from ↓	rofile View, a the Side 70 m	
Pro	rocedure:			
1	What is the minimum (lowest) elevation on the map on page 2 of this (Hint: It is less than 250')	activity?		
2.	What is the maximum elevation shown in the region of your map?		(It's more than 550')	
3.	What is the range of elevations? (The highest elevation minus the low	vest.)		
4.	How many dark 50 foot index contour levels are shown on your map?			
5.	In order to use this interval, how many contour levels will you need have? (This is the answer to step 4, plus 1.) This is the maximum number of sheets of foam/people in your group for this activity.			
6.	Now that you have determined the number of people in your group, y a different contour level, starting at the contour below the lowest eleva (For example, if the lowest level on your map is 275 feet and the contour your group will start with 250'. The next person will get 300', and the	You will need t ntion in the ma our interval (# ne following p	o assign each perso p area. 4 above) is 50 feet, erson 350', etc.)	
	What is your index contour? (Each person in the group will have a d	lifferent conto	ur!)	
7.	The person with the lowest contour will simply paste the whole map to a piece of stiff cardboard and cut the sheet of cardboard along the rectangular edges of the map region.			
	Cut out your paper along your contour, then paste the paper to a stand cardboard cutting along the selected contour line to isolate the areas at (Do not cut along the roads or the streams. Just cut along the contour	dard thickness t the index lev <i>ur lines.)</i>	of corrugated el or above.	
8.	When each person in the group has cut out her/his own piece of cards from the bottom up to make a three dimensional model of the area are	board, paste th	e sections together	



- 1. Below 230 ft. (Between 220 and 230 ft.)
- 2. Above 570 ft. (Between 570 and 580 ft.)
- 3. About 350 ft.
- 4. Six 50 foot contours.
- 5. 7
- 6. Variable

## A Topo Map in 3-D Tips

<b>Difficulty:</b> H	Fairly Easy	7		
Content: I	mportant			
Preparations	S: None			
Materials:		One 8 <sup>1</sup> / <sub>2</sub> by 11 foam food tray or Sheet of Corrugated Cardboard per person. One pair of Scissors Per Person Glue Sticks or Jars of Glue A model to show from a former year Highlighter pens or colored pencils		
Time:		~ 80 Minutes		
Suggestions for t	he Teach	er: Do not duplicate the map on the back of the directions.		
		Can be used in place of the ESCP activity, Making a Topo Ma		
Student Intro:	1. Pleas	e conserved materials (foam trays, glue, markers, etc.)		
	2. Explain what index contours are.			
	3. The i	deal group size is about 5. (Maximum of 7)		
4. Please conserve the glue.				
5. Paste a whole sheet onto the cardboard to make the base.				
	6. Expla	ain what a closed depression is. (Lower right side of the map.)		
<b>Post-Lab:</b> N	None			
Extensions:	udent to an exposed place where they will be asked. /sketch a contour map of the immediate area.			
	Work w	vith your own local topographic map.		

Unit 1

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