

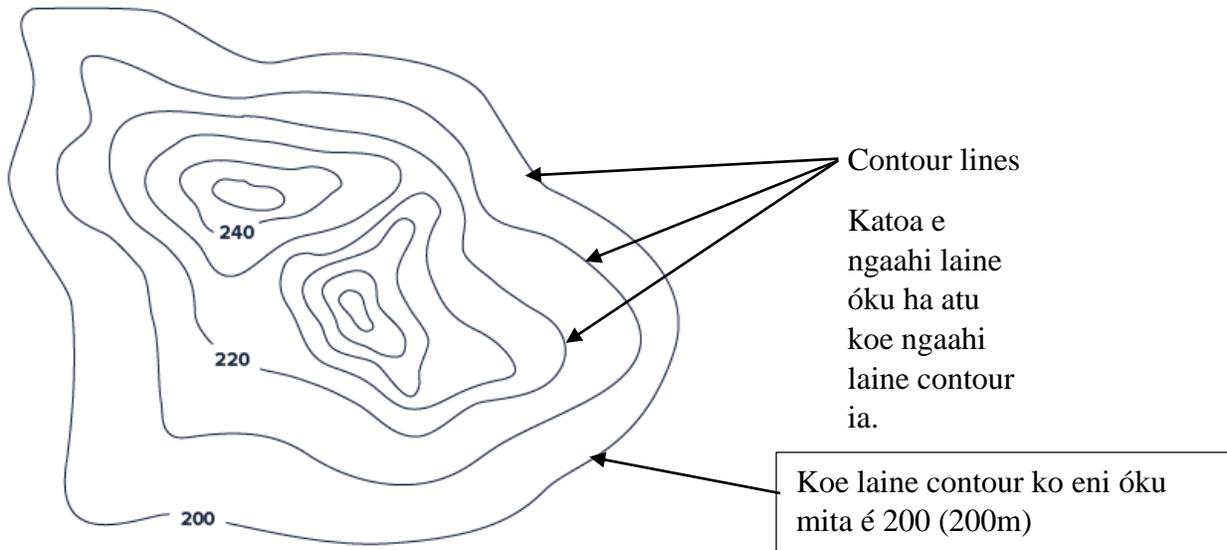
# FORM 4 GEOGRAPHY NOTE 3

## CONTOUR LINES/ CROSS SECTION

**Contour line** is a line on a map that joins places that are the same height above sea level.

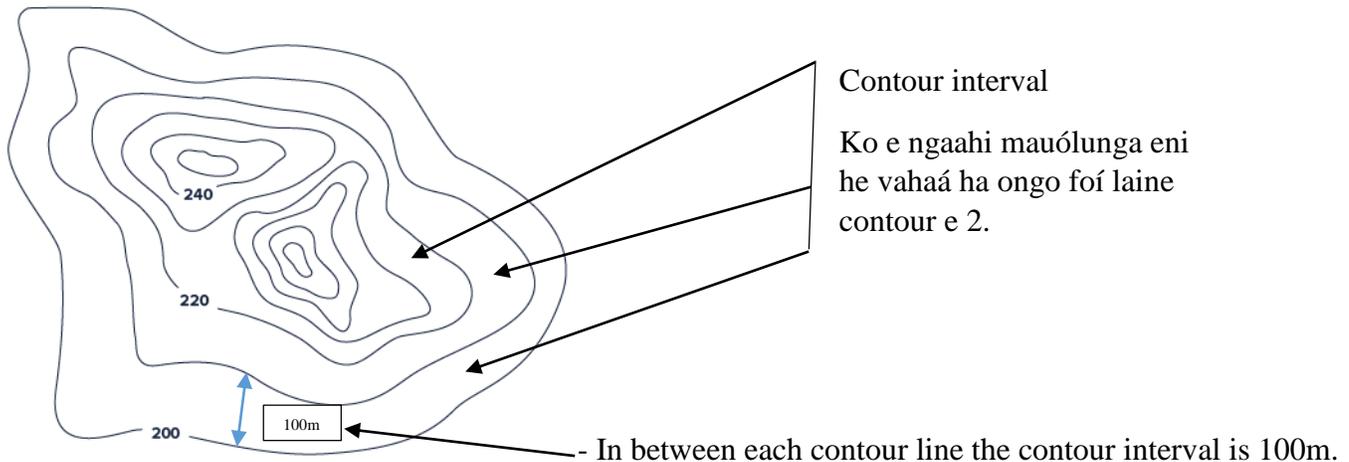
**Contour lines** can also tell us the **slope** of the land.

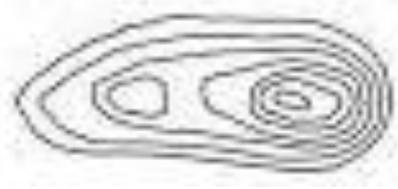
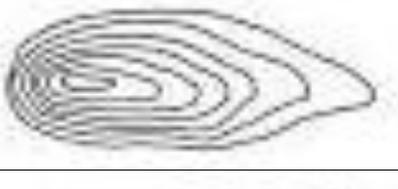
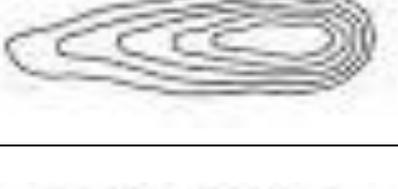
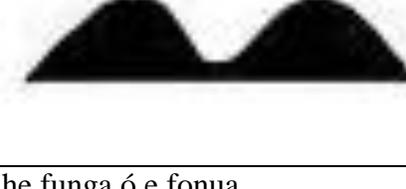
- **Slope** is the shape of the land.  
(Ko e fotunga e funga 'o e fonua)
- A contour usually has numbers printed on it.
- A contour connects point of equal elevation (height)



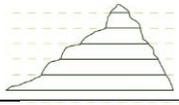
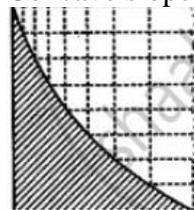
- Ko e ngaahi mataífika koe óku ha í ólunga óku ne fakafofonga'i e laine ko ia. Koe ngaahi laine ko ia óku ui ia ko e contour lines.

**Contour interval** is the difference in height between one contour line and the next contour line.



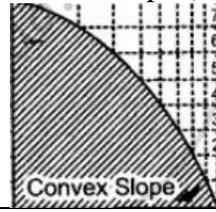
Contour pattern	Landform / Slope
	
	
	
	
	
	

Ko e ngaahi contour ena mo e anga éne fotunga hene ási he funga ó e fonua.

CONTOUR LINES	TYPE OF SLOPE
Lines close together	Steep slope 
Lines far apart	Gentle slope 
Lines close together at the top and wide apart at the bottom	Concave slope (a slope that caves in) 

Lines close together at the bottom and wide apart at the top

Convex slope (a slope that bulges out)



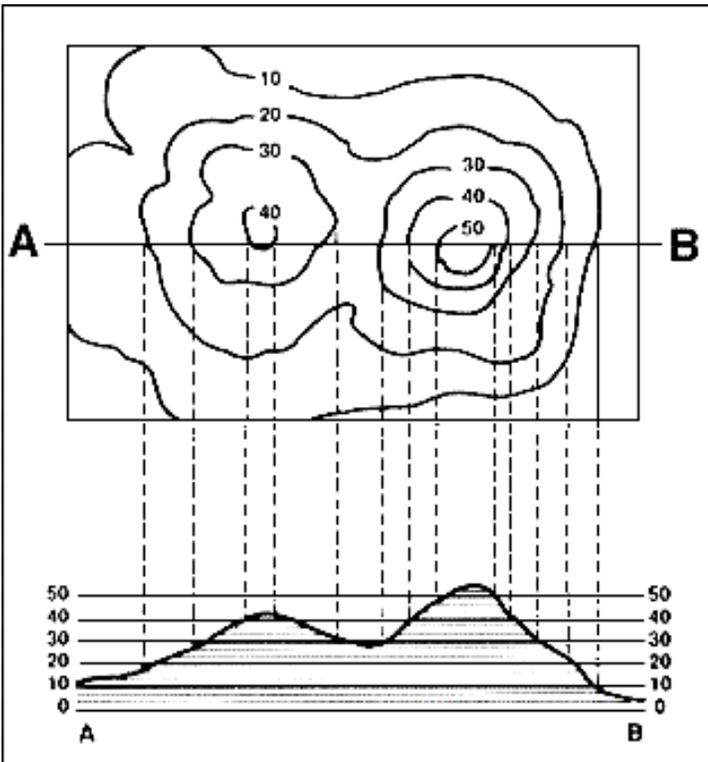
Line that are the same distance apart from top to bottom

Uniform slope (flat)

Ko e ngaahi laine contour ena he anga énau tuú pea óku ne fakaha mai ai e ngaahi fotunga e fonua.

## CROSS SECTIONS

**Cross sections** are line graphs that show a sideways view of a landscape.



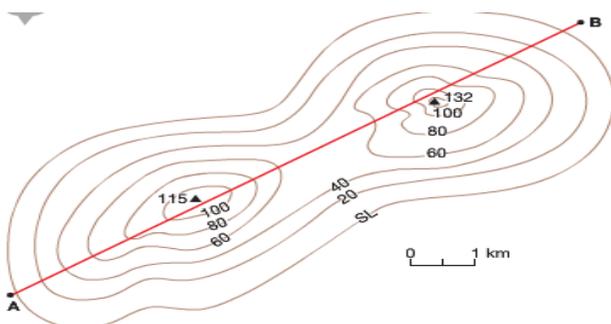
This is an example of a cross section.

Ko e fakatataa ena ó e anga hono ta ó ha cross section ó ha contour pattern or landform.

## CONSTRUCTING CROSS SECTIONS FOR CONTOUR MAPS

Steps to use when constructing a cross section of a landform

1. Locate two points on a map between which the cross-section is to be made. Label these points A and B



2. Place a straight edge of paper from point A to point B and join the dots. Also you need to mark points A and B on your piece of paper.
3. On your paper, mark the position where your paper crosses each contour line. Write the value of each contour line on your piece of paper (you may need to estimate the height of your starting and finishing points)
4. On graph paper, draw the horizontal and vertical axes from your cross-section. The length of the horizontal axis should be as wide as the distance between points A and B.
5. Place your piece of paper along the horizontal axis. In pencil, plot (dot) the contour points and heights as if you were drawing a line graph.
6. Join the dots with a single smooth, curved line.

- IF YOU STILL DO NOT UNDERSTAND HOW TO DRAW A CROSS SECTION WATCH THE VIDEOS BELOW TO HAVE A BETTER UNDERSTANDING. THESE ARE LINKS FOR THE INTERNET.  
KAPAU ÓKU ÍKAI KE MAHINO E ANGA HONO TA E CROSS SECTION PEAKE SIO HE NGA AHI VITIOO KO ÉNI, KUOPAU KEKE NGAUEÁKI HA INTANETI.

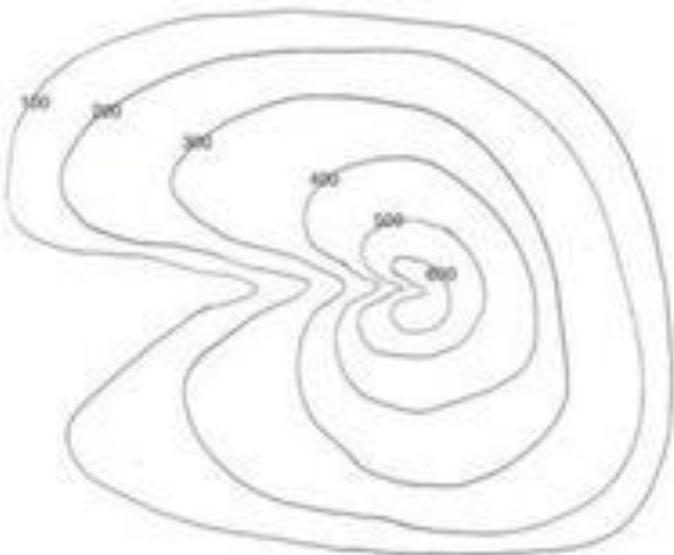
<https://www.youtube.com/watch?v=9w-KOodmiZc>

<https://www.youtube.com/watch?v=rJru71-b61Y>

<https://www.youtube.com/watch?v=y3hPFCW9f7M>

**ACTIVITY 1:** Read the questions carefully before attempting it. Use your notes to answer the questions that follow.

A.



- |  |
|--|
| <ol style="list-style-type: none"> <li>1. State the contour interval of this contour pattern.</li> </ol> |
|--|

B. Match each contour pattern to its correct landform.

1		A	
2		B	
3		C	
4		D	
5		E	
6		F	

C. Draw the correct landform using the contour pattern given in the diagram below.

