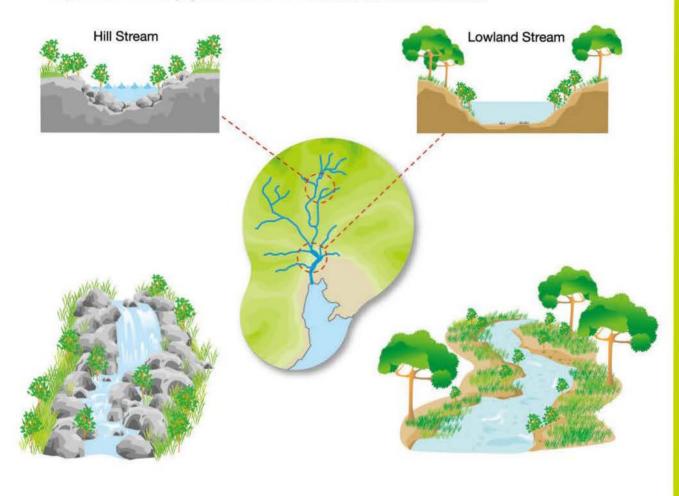
Freshwater stream Physical environment

15.1.1 Physical changes of a stream (Upland stream vs Lowland stream)

The pictures show the physical features of Hill stream and Lowland stream.







Can you point out the differences between Upland (Hill) Stream and Lowland Stream?

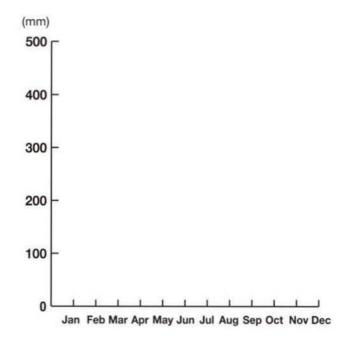
	Hill Stream	Lowland Stream
1. Width of channel		
2. Discharge volume		
3. Water flow rate		
4. Slope		
5. Substrate of streambed		

15.1.2 Seasonal changes of freshwater stream in Hong Kong

Based on the data below, sketch a chart to show changes in the mean monthly rainfall and answer the following questions.

Month Rainfall (mm)						
1	24.9					
2	52.3					
3	71.4					
4	188.5					
5	329.5					
6	388.1					
7	374.4					
8	444.6					
9	287.5					
10	151.9					
11	35.1					
12	34.5					
Total	2382.7					

Source of information: Hong Kong Observatory







A. According to the mean rainfall dat	, the stream will have	e highest discharge volume in:
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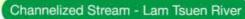
В.	According	to the	mean	rainfall	data,	the stream	will have	lowest	discharge	volume in:
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C. Apart from the heavy rains in wet season,	what other factors increase the chances of
flooding?	

15.1.3 Natural Stream and Channalized Stream

With reference to the following photos, answer the following questions:







Natural Stream - Tai Ho River





	Please indicate how a channelized stream different from a natural stream in respense the shape, streambed materials and vegetations near the banks.
	Channel shape:
1	Channel materials:
8	Channel vegetation:
3. 1	What are the ecological impacts of channelization?
114	
: . '	What remedial measures had been taken by the Drainage Services Department?
0	
. 7	

