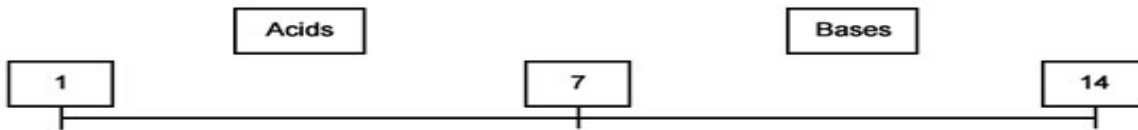






Student Worksheet

Water Chemistry:

A) pH Testing: Label your test strips from Part A and Part B with the name of the test substance and its pH. Tape them to the scale below in the correct spot.



B) Water Quality: Circle the number that best describes the quality of each water sample:
 1 = best quality 2 = average quality 3 = poorest quality

Water Quality Factors	Water Test Samples								
	Pine Lake			Tulip River			Cedar Bog		
Coliform Bacteria 	1	2	3	1	2	3	1	2	3
Nitrates 	1	2	3	1	2	3	1	2	3
Fluoride 	1	2	3	1	2	3	1	2	3
pH 	1	2	3	1	2	3	1	2	3

Physical Properties of Water:

A) Turbidity: Record the Secchi disc depth for each of the water samples (Pine Lake, Tulip River, and Cedar Bog) and circle the number that best describes the quality of water for each of them:

1 = best quality 2 = average quality 3 = poorest quality

Turbidity Test	Water Test Samples								
	Pine Lake			Tulip River			Cedar Bog		
Secchi Depth (cm)									
Turbidity Rank	1	2	3	1	2	3	1	2	3

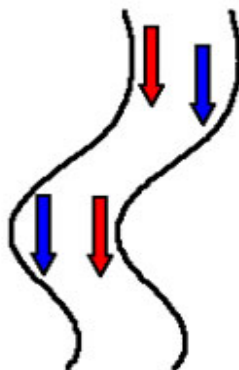
B) Erosion and Deposition:



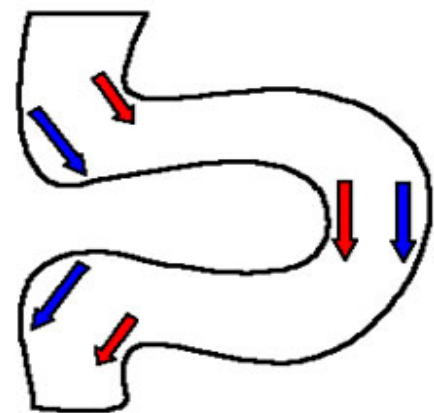
Canyon River



Meandering River

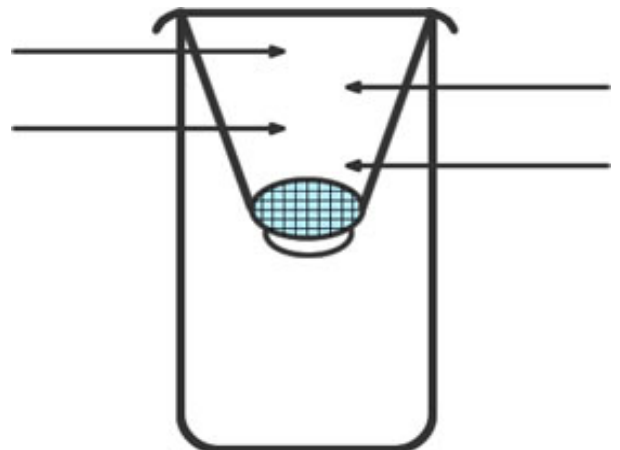


Cut-Off River



Draw what you think will happen to the shape of the third river (Cut – Off River). Remember water always takes the easiest path.

C) Filtration: Your task is to make the water on the island potable by building a complex filter. Using materials found on the island, your group needs to analyze each of the materials that make up a filter and decide what order you would put them in. What type of material would you use at the bottom? At the top? In the middle?



BLM 1.3.a