

Pre-Fieldtrip Activity 5: Staircase to the Canopy

TASK:

You have been hired by National Parks Board to build a bridge in the nature reserve. The purpose of the bridge is to provide opportunities for closer observation of forest life at the canopy level. You are to note that the bridge is to be built in a nature reserve and therefore, caution needs to be taken in the whole planning and construction of the project. In groups of 4, with the use of relevant information from websites on types of bridges and your knowledge of nature reserves, make your decision with the help of the decision matrix. Write a proposal for the building of the bridge.

Step 1:

Decide on a list of criteria. For instance, since the bridge is to be built in a nature reserve, minimum clearance of vegetation for the construction site can be a criterion.

Step 2:

List down the different types of bridges (alternatives). You can do this by searching the internet.

Step 3:

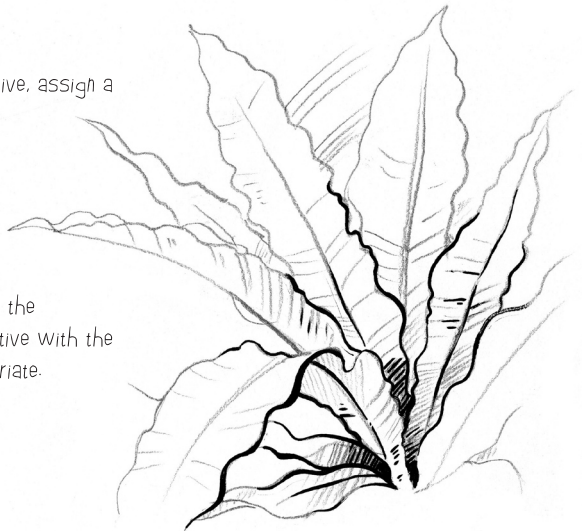
Assign a weight to every criterion, with 1 being the least important and 5 being the most important.

Step 4:

Rate the alternatives. For each alternative, assign a rating for each decision criterion. (1=low, 2=medium, 3=high)

Step 5:

Multiply the score for each decision criterion by the assigned weight. Total the score for each alternative. The alternative with the highest score will be the most appropriate.



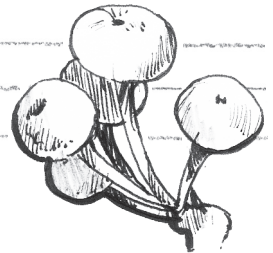
Decision Matrix

Criterion	Weight	Alternative 1	Alternative 2	Alternative 3	Alternative 4



Type of Bridge proposed: _____

Description and drawing of the proposed bridge:



Reasons for choice: