



Study of a Mangrove Ecosystem

(Adaptation of Mangrove Animals)

Background information:

Mangrove habitat has high diversity of animals. Animals live in the places where they find most suitable or most adapted to. In order to survive, they demonstrate different ways of adaptations to the special physical environment of a mangrove habitat.

Task:

Design and carry out an investigation to find out distribution pattern of mangrove animals and to study the adaptive features shown by the animals.

Write a full report for your investigation work and your findings.

Available equipment and material:

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| 1. Clipboard | 2. Soil thermometer |
| 3. Plastic tray | 4. Trowel |
| 5. Forceps | 6. Metal sieve |
| 7. Transect (50 m) | 8. Quadrat (0.5 m X 0.5 m) |
| 9. Magnifying glasses | 10. Rubber gloves |
| 11. Dissecting microscope (to be used in Lab.) | |
| 12. Standard glass wares (to be used in Lab.) | 13. Wildlife Pictorial Guide (Book) |
| 14. Estuarine Organisms (Book) | |

Some items listed above may not be useful, students should decide what to be used. Additional equipment or material can be provided upon request, so long as the request item is available.

Procedure and time arrangement:

1. Group discussion and formulation of investigation plan - 50 mins
2. Distribution of equipment - 10 mins
3. Field work - 90 mins
4. Laboratory work - 60 mins
5. Group discussion and interpretation of results - 90 mins
6. Write up the full report.

