

PROVISIONAL PROGRAMME

Introduction

- Aim to compare a coniferous and deciduous woodland ecosystem.

Field Site 1: Deciduous woodland

- Random sampling of ground layer using a quadrat.
- Identifying species using keys.
- Measuring abiotic factors including soil temperature, air temperature, max/ min temp, light intensity, rainfall, humidity and soil pH.

Field Site 2: Coniferous woodland

- As at Field Site 1.
- Management of the plantation.

Review

- Compare diversity of two ecosystems and discuss reasons.
- Compare microclimate of two ecosystems and discuss reasons.
- Discuss management to conserve diversity of wildlife.
- Consider the limitations of the fieldwork.

LEARNING OUTCOMES

Most students will

- Make hypotheses, collecting data to test the hypotheses and use the data to draw conclusions.
- Understand the differences between a coniferous and deciduous woodland.
- Understand woodland management and conservation.
- Work safely and reduce their impact on the environment
- Describe the relationship between biotic and abiotic factors

Some students will not have made as much progress and will

- Identify features which are different in different habitats
- Identify organisms found in a habitat
- Make hypotheses and collect relevant data.

Some students will have progressed further and will

- Consider the reliability of the data collected and suggest other factors that could influence the results.
- Identify the relationship between organism distribution and specific adaptations.

SAFETY All activities and sites are risk assessed. Recommended adult: student ratio of 1:12.

CLOTHING Appropriate outdoor clothing. Indoor & outdoor footwear.

BEHAVIOUR Teachers are responsible for good behaviour & lunchtime supervision.

RESOURCES All resources are provided.

ICT There is the option of using a digital camera to record techniques.



ASSESSMENT

Progress assessed by open-ended questioning, peer discussion and explanation of hypotheses and results.

PRIOR LEARNING

Review habitats and food chains.

FUTURE LEARNING

Produce a well-structured report that draws on evidence to reach conclusions.