

PROVISIONAL PROGRAMME

Introduction

- Contrast weather, climate and microclimate.

Weather Station Visit

- Visit a weather station and record temperature, rainfall, cloud cover, wind speed and direction.

Land use and microclimate

- Consider the effects of land use on microclimate.
- Compare the microclimate in the meadow, deciduous woodland and coniferous woodland.
- Make measurements of canopy cover, light, rainfall, temperature, humidity, wind speed and direction.

Valley microclimate transect

- Compare the microclimate of north and south facing slopes.
- Measure temperature, rainfall, wind speed and direction.

Review

- The effects of land use and landscape on microclimate.

LEARNING OUTCOMES

Most students will (N.C. Level 5/6)

- Describe and explain the relationships that exist between vegetation and microclimate.
- Carry out a geographical enquiry.
- Collect and record evidence using a range of geographical equipment.
- Draw conclusions from the data collected and discuss limitations of data collection.

Some students will not have made as much progress and will (N.C. Level 4/5)

- Describe the differences between weather and climate.
- Use a range of equipment to take measurements.

Some students will have progressed further and will (N.C. Level 6/7)

- Identify the best way of presenting the data.
- Evaluate critically sources of evidence, present well argued summaries of their investigations and reach substantiated conclusions.

SAFETY All activities and sites are risk assessed.
Recommended adult: child 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. Photos on a disk cost £5

ASSESSMENT

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

PRIOR LEARNING

Definitions of climate, microclimate and weather. Introduction to land use.

FUTURE LEARNING

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