

PROVISIONAL PROGRAMME

Aim

Investigate the relationship between land use and flood risk

Introduction

- Causes of flooding
- Land use and flood risk

AM

Compare infiltration rate in two contrasting land uses.

- Measure infiltration rate in a woodland using random sampling
- Measure infiltration rate in a grassland using random sampling
- Measure abiotic factors including canopy cover.
- Measure rainfall using rain gauges.
- Mann Whitney U test to assess differences between infiltration rates.

PM

Storm simulator plots: Investigate effect of land use on lag time and discharge levels.

- Compare lag times between different simulated land uses.
- Plot storm hydrographs from simulated storm events.

Follow up

- Discuss results and limitations
- Use conclusions to suggest methods of flood management for an urban and rural drainage basin

RECOMMENDED DAY LENGTH

9.30 – 14.30

SAFETY All activities and sites are risk assessed. Recommended 1 adult per group.

CLOTHING Appropriate outdoor clothing. Indoor & outdoor footwear.

VISITING TEACHER ROLE Teachers to support FSC staff by circulating around the students, keeping them on task. Teachers are responsible for behaviour.

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 discussions, presentations and use of knowledge and skills in different situations.

PRIOR LEARNING Simple definitions and terms

FUTURE LEARNING Consider effects of human influences on the environment