



FSC Course: Extreme weather (A-Level)

Edexcel Unit 2: Geographical Investigations Extreme Weather (AS)

PROVISIONAL PROGRAMME

Aim

Investigate the relationship between land use and flood risk.

Introduction

- Causes of flooding
- Land use and flood risk

AM

Compare infiltration and interceptions rate in two contrasting land uses.

- Measure interception rates in different woodlands using random sampling.
- Measure the variation of infiltration rate within one woodland using random sampling.
- 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 using storm simulator. Plot storm hydrograph and compare to case study of the River Uck.

An introduction to weather recording techniques to familiarise students with how to complete **weather diaries**.

Follow up

- Discuss 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.

BEHAVIOUR

Teachers are responsible for good behaviour and 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 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