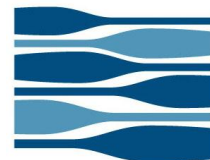


River & Rowing Museum

Key Stage 3: Flood!

Workshop Summary



The workshop will enhance understanding of the water cycle, river processes, flooding, and the balance between human and environmental relationships in a river drainage basin. Students will learn about large-scale management methods along the Thames and review advantages and disadvantages of different flood protection methods. The workshop focuses on the Thames, with an emphasis on the area between the Museum and Marsh Lock.

Workshop Contents

Education Centre (Museum Tutor led)

This session provides hands-on activity to demonstrate:

- How permeable and impermeable rocks, soil, and vegetation affect the rate in which precipitation travels to a river channel, and the development of spring lines
- The processes of erosion, transportation and deposition, and revision of basic river principles
- Land use changes over time, as well as man made and natural features of a river, using aerial photographs, a historic painting and an OS map of the River Thames in Henley
- The water cycle and a hands-on activity that focuses on the impacts of flooding

River Walk (Museum Tutor led)

- The walk between the River & Rowing Museum and Marsh Lock focuses on the design of the building, natural and protected river banks, and Marsh Lock, the weir and how water levels are controlled
- Students make an annotated sketch, record key words and annotate a map of the walk with important features

Galleries (Teacher led)

- During the first 45 minutes students complete worksheets in roles either as a Local Resident, Tourist Board Officer, Wildlife Trust Officer, or River Thames Management Officer to obtain information about the causes and impacts of floods, as well as management schemes
- During the remaining 15 minutes, you can gather in the 'window end' of the River Gallery for a teacher-led plenary session. We will provide you with 4 questions and some suggested prompts as a guide to lead a discussion to enable students to share their ideas with one another and solidify their learning further

Plenary (schedule allowing) (Museum Tutor led)

- A PowerPoint presentation suggesting some ways in which flooding might be managed in the area of focus between the River & Rowing Museum and Marsh Lock by using local, national and international examples
- We will discuss each of the suggestions according to its merits or disadvantages, considering aspects such as practicality, environmental impact, cost, maintenance and long or short-term solutions

Learning Outcomes

- Development of environmental awareness
- Interpretation of a river landscape
- Development of geographical skills in the context of river studies
- Relating experimental results to the real world
- Raising awareness of safety issues related to fieldwork in the river environment

National Curriculum Areas Related to this Workshop

Geography Key Stage 3

Place, Space, Scale, Interdependence, Physical and human processes, Environmental interaction and sustainable development, Geographical enquiry, Fieldwork and out-of-class learning, Graphicacy and visual literacy, Geographical communication

Useful Student Preparation

- Introduction to the River Thames, the water cycle and river processes
- A knowledge of mapping and field sketch techniques
- Some understanding of the consequences of development on river flood plains