

Progression in Rivers Fieldwork

Years 3 and 4	Years 5 and 6	Year 8
Adult:Pupil ratios		
1:8	1:8	1:10
<ul style="list-style-type: none"> ✓ To observe and describe geographical features relating to rivers. ✓ About how rivers erode, transport and deposit materials. ✓ To interpret maps, models and to use fieldwork techniques. ✓ To learn how human activity can affect and be affected by rivers. ✓ To understand the hazards and risks associated with rivers. 	<ul style="list-style-type: none"> ✓ To describe and compare geographical features relating to rivers. ✓ About how rivers erode, transport and deposit materials and how these processes can change the shape of the landscape. ✓ To interpret maps, models and use fieldwork equipment to experience river processes. ✓ To understand how human activity can affect and be affected by rivers. ✓ To understand the hazards and risks associated with rivers. 	<ul style="list-style-type: none"> ✓ To recognise and describe geographical features and explain river processes and patterns. ✓ About how rivers erode, transport and deposit materials and how these processes can change the shape of the landscape and impact on the environment. ✓ To interpret maps, models and use a range of fieldwork equipment including clinometers and flow meters. ✓ To collect, record and analyse data. ✓ To suggest explanations for the ways in which human activity can affect and be affected by rivers. ✓ To understand the hazards and risks associated with rivers.

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<p>Session A PowerPoint to recap the water cycle, river and valley features using geographical terminology. Kung Fu Rivers is used to incorporate kinaesthetic learning styles.</p> <p>Rotation of Activities :</p> <ol style="list-style-type: none"> 1. Landscape model and map 2. Erosion table 3. Sand trays to create river drainage basin 	<p>Session A PowerPoint to recap the water cycle, river and valley features using geographical terminology. Kung Fu Rivers is used to incorporate kinaesthetic learning styles.</p> <p>Rotation of Activities:</p> <ol style="list-style-type: none"> 1. Landscape model and map 2. Erosion table 3. Run Off experiment to show how flooding may occur due to differing run off, along with some of the associated hazards. 	<p>Session A PowerPoint to recap the hydrological cycle, river and valley features using geographical terminology with an emphasis on flooding and human impact.</p> <ol style="list-style-type: none"> 1. Erosion table Focusing on meander bend. Flooding issues and defences 2. Run Off experiment including Sustainable Urban Drainage systems to show how the impact of flooding can be reduced. 3. Visit to River Nene at Yarwell Mill where students will annotate a base map and consider the impact of flooding on the area.
<p>Session B</p> <ul style="list-style-type: none"> • Walk through village using map to follow route observing features relating to rivers along the way, including: valley shape and flood plain and human use of river • Discuss the function of the sewage works and its place in the water cycle. • Field sketch observing erosional features of river bank • Record speed of flow 	<p>Session B</p> <ul style="list-style-type: none"> • Travel by bus to view the main River Nene, its valley and flood plain, the erosional features of the river bank and human use of the river. At a tributary of the River Nene • Field sketch • Speed of flow experiment • Measure the depth of the tributary 	<p>Session B</p> <ul style="list-style-type: none"> • Travel by bus to a small tributary of the River Nene • Field sketch • Speed of flow experiment • Depth of tributary and cross section • Measure angle of the valley profile using clinometers and ranging poles