



Activity	Key Skills			National Curriculum		EDEXEL, OCR, AQA	
	Measuring physical aspect of a river.	Geography Vocabulary	Annotated field sketches.	Geography	ICT	Geography (river channel and basin processes, fluvial land forms)	ICT
<b>River Geography</b>	*	*	*	*	*	*	*

**Learning objective: Students will have experienced and be able to identify and measure the physical processes within a river.**

**Description:** This study looks at the physical, biological and chemical properties of a river. Students produce a field sketch of each of the sites, and employ various field techniques to measure such factors as velocity, gradient and a profile, as well as kick sampling and chemical testing. They will aim to answer hypotheses asking about relationships between physical/chemical and biological factors.

AIMS	FIELDWORK	ICT
<ul style="list-style-type: none"> <li>To study the relationship between the physical, chemical and biological properties of the river.</li> <li>To discover how the level of pollution in the river can be measured using bio- indicators</li> <li>To measure the velocity, depth and width of the river.</li> <li><b>Keywords:</b> Velocity, width, depth, bio- indicators, straight, meander, ford/brading, chemical.</li> </ul>	<ul style="list-style-type: none"> <li>Measure the width, depth, velocity, wetted perimeter at a number of sites.</li> <li>Using kick sampling to collect invertebrates.</li> <li>Measure the chemical aspects of the river, including pH, phosphate, nitrate and temperature.</li> <li>Annotated field sketches.</li> </ul>	<ul style="list-style-type: none"> <li>Insert photos and diagrams.</li> <li>Create 3 river profile graphs.</li> </ul>