

St Ambrose College Learning Program: GCSE Paper 1 Rivers

3.1.3.3 River Landscapes in the UK

Specification content/Topic Content	Objectives/skills	Stretch and Challenge	Homework	Assessment
<p>The water cycle - how water moves through the water cycle.</p> <p>Key terms : Evaporation, onshore winds, condensation, precipitation, infiltration, percolation, surface runoff, through flow, groundwater flow, water table, evapotranspiration</p>	<p>Use of key subject specific and technical terminology</p> <p>Anagrams of famous rivers</p> <p>To show how water is stored and moves in a variety of ways</p> <p>Mix and match exercise on key terms</p>	<p>https://www.youtube.com/watch?v=al-do-HGulk</p> <p>The Water Cycle 7 minutes</p> <p>Handout diagram water cycle</p> <p>http://www.youtube.com/watch?v=FPvk8K4K8oY</p> <p>Evian advert - match the pictures to a key component of the water cycle</p> <p>Handout pictures for Evian advert</p>	<p>Describe the movement of water through the water cycle from the ocean to the land and back again. You have to use all of the key terms which should be highlighted in red.</p> <p>Revise for a short test on the Water cycle. Learn the key terms.</p>	<p>Short test on the water cycle next lesson</p>
<p>Key terms associated with drainage basins:</p> <p>Source, mouth, tributary, confluence, drainage basin, watershed, delta, distributaries, estuary</p>	<p>Use of key subject specific and technical terminology</p>	<p>https://www.youtube.com/watch?v=nYagpspXW7A</p> <p>Landforms Rivers 19 Minutes</p> <p>Watch first 3-4 minutes to show what the source of</p>	<p>Annotate the handout with as many terms as possible</p>	<p>Short test on the drainage basins next lesson</p>

		<p>the River Tees is like.</p> <p>Starts off at the source and shows conditions there and then follows the river downstream to the mouth.</p> <p>https://www.youtube.com/watch?v=-EST6rz09w8</p> <p>GCSE Geography - Rivers Overview</p> <p>Watch the first minute 20 seconds for key terms</p> <p>Delta is found at 7 minutes 30 seconds to 7 minutes 55 seconds</p>		
Specification content/Topic Content	Objectives/skills	Stretch and Challenge	Homework	Assessment
<p>The long profile and changing cross profile of a river and its valley.</p> <p>Fluvial processes:</p> <ul style="list-style-type: none"> erosion – hydraulic action, abrasion, attrition, solution, vertical and lateral erosion 	<p>Use of key subject specific and technical terminology.</p> <p>To show how these processes work and how they change downstream</p>	<p>https://www.youtube.com/watch?v=hAaHwU3vhlE</p> <p>River erosion processes 2 minutes 21 seconds</p> <p>Answer the questions on the worksheet</p>	Past question 2011	GCSE question
<ul style="list-style-type: none"> transportation – traction, saltation, suspension and solution 	<p>Use of key subject specific and technical terminology.</p> <p>To show how these processes work and how they change</p>	<p>https://www.youtube.com/watch?v=M48ANM3hAQ</p> <p>The River Severn From Source to Mouth</p> <p>https://www.youtube.com/watch?v=43R3mjiNBKc</p> <p>Illgraben 28 juillet 2014, front de lave (2 minutes)</p>		GCSE question

	downstream	<p>The film shows a wide variety of materials being transported – rolled and bounced along the bed as well as finer material in suspension and possibly solution</p> <p>https://www.youtube.com/watch?v=jgWbYDUm-ME debris flow - 22 août 2011 - Crue torrentielle à Saint Julien Montdenis start at 1 minute Note the colour of the water https://www.youtube.com/watch?v=e83ONilzyK8 Massive Himalaya Rock Fall. must watch massive rocks being moved downstream</p>		
<ul style="list-style-type: none"> deposition – why rivers deposit sediment 	Interpretation of photographs	<p>Dingbats for key terms Answer questions based on photographs</p>		
<ul style="list-style-type: none"> Characteristics and formation of landforms resulting from erosion: interlocking spurs, waterfalls and gorges. 	Annotate diagrams and describe a sequence of events leading to the formation of a gorge	<p>https://www.youtube.com/watch?v=_M48ANM3hAQ The River Severn From Source to Mouth https://en.wikipedia.org/wiki/High_Force</p> <p>Use the web site above and explain the significance of the following figures in relation to High Force Waterfall on the River Tees</p>	Annotate photos High Force on the River Tees	Past GCSE question
<ul style="list-style-type: none"> Recognising upland river landforms on an ordnance map. 	Interpretation of maps and photographs	<p>https://www.youtube.com/watch?v=sFzS3ggVTqA</p>	Add annotations to	

		GCSE Geography - Rivers (Upper Course)	the photograph of an upland river	
<ul style="list-style-type: none"> • Characteristics and formation of landforms resulting from erosion and deposition: meanders and ox-bow akes. • 		https://www.youtube.com/watch?v=wi0ft3TCIGs Meanders 3 minutes 33 seconds https://www.youtube.com/watch?v=4HyHXepETX8 https://www.youtube.com/watch?v=8a3r-cG8Wic why do rivers curve? 3 Minutes		
<ul style="list-style-type: none"> • Characteristics and formation of landforms resulting from deposition: levées, flood plains and estuaries. 				
<ul style="list-style-type: none"> • An example of a river valley in the UK to identify its major landforms of erosion and deposition. 		River Tees case study https://www.youtube.com/watch?v=nYagpspXW7A		
<ul style="list-style-type: none"> • 				

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<p>Factors that affect flooding. precipitation, geology, relief and land use.</p>	<p>How physical and human factors affect the flood risk –</p> <p>The use of hydrographs to show the relationship between precipitation and discharge.</p>	<p>Interpretation of different hydrographs</p>		
<p>The costs and benefits of the following management strategies:</p> <ul style="list-style-type: none"> • hard engineering – dams and reservoirs, straightening, embankments, flood relief channels • soft engineering – flood 	<p>The show the costs and benefits of different management strategies:</p>	<p>Draw up a table showing advantages and disadvantages of the different types of management schemes</p>		

<p>warnings and preparation, flood plain zoning, planting trees and river restoration.</p> <ul style="list-style-type: none"> • hard engineering – dams and reservoirs, straightening, embankments, flood relief channels • soft engineering – flood warnings and preparation, flood plain zoning, planting trees and river restoration. 				
<p>One example of a flood management scheme in the UK to show:</p> <ul style="list-style-type: none"> • why the scheme was required • the management strategy • the social, economic and environmental issues. 	<p>Case Study Boscastle</p> <p>Show the factors that contributed to the flood of 2004 and what has been done to reduce the risk of flooding in the future</p>	<p>P 56 Revision guide</p> <p>https://www.youtube.com/watch?v=SxweiRNIHbo</p> <p>Boscastle flood 2007 (4 minutes 29 seconds) Cars and trees being washed downstream</p>		<p>Past GCSE question</p>