

Case study Glaciers create beautiful landscapes which has many users

Farming- common on the upper slopes where the soil quality is poor, in the lower slopes you'll find more arable farming (crops). Quarrying- minerals in the hills can be used for materials in building and industry.

Forestry- Trees produce fuel and timber.

Tourism- people whom come and visit the region can pay money which benefits the local economy.

Tourism in glaciated regions

Regions like the Lake District and Snowdonia attract millions of tourists each year. These bring many advantages and disadvantages.

Positives:

-Money is spent in the region which creates employment for the local residents.

-People enjoy the scenery which is good for their well being and fitness.

Negatives:

-Traffic congestion leads to frustrations and delayed journeys. -Footpath erosion has an impact on the landscape.



	Water Cycle Key Terms			Lower Course of a River				
	Precipitation Moisture falling from clouds as rain, snow or hail.			Near the river's mouth, the river widens further and becomes flatter. Material transported is deposited.				
	Interception	Vegetation preve	nt water reaching the ground.		Formation of Floodplains and levees		Natural levees	
	Surface Runoff	Water flowing over surface of the land into rivers		When a river floods, fine silt/alluvium is deposited on the valley floor. Closer to the river's banks, the heavier materials build up to form natural levees.		mp /		
in	Infiltration	Water absorbed into the soil from the ground.						
S	Transpiration	water lost through leaves of plants.		✓ Nutrient rich soil makes it ideal for farming.		11.	River	
	Physical and Human Causes of Flooding.			1	Flat land for building houses.			
Bie	Physical: Prolong 8 Long periods of rain become saturated	n causes soil to	Physical: Geology Impermeable rocks causes surface runoff to increase river discharge.		r Management Schemes Engineering	Hard Engineer	ring	
Le	to flow quickly into greater discharge.	eep-sided valleys channels water flow quickly into rivers causing eater discharge. Tarmac and concrete are impermeable. This prevents infiltration & causes surface runoff		Afforestation – plant trees to soak up rainwater, reduces flood risk. Straightening Channel – increases velocity to remove flood water. Demountable Flood Barriers put in place when warning raised. Artificial Levees – heightens river so flood water is contained. Managed Flooding – naturally let areas flood, protect settlements. Deepening or widening river to increase capacity for a flood.				
	Upper Course of a River			protect settlements. for a flood.				
	Near the source, the river flows over steep gradient from the hill/mountains. This gives the river a lot of energy, so it will erode the riverbed vertically to			Hydrographs and River Discharge River discharge is the volume of water that flows in a river. Hydrographs who discharge at a certain point in a river changes over time in relation to rainfall				
	form narrow valleys. Formation of a Waterfall							
	Harder rock	1) River flow	1) River flows over alternative types of rocks.		1. Peak discharge is the discharge in a			
	Safter rock	2) River erodes soft rock faster creating a step.		period of time.		(cumecs)		
	~		 3) Further hydraulic action and abrasion form a plunge pool beneath. 4) Hard rock above is undercut leaving cap rock which collapses providing more material for 		 2. Lag time is the delay between peak rainfall and peak discharge. 3. Rising limb is the increase in river discharge. 		- 10 - 10	
	erter rock	which collap						
		erosion. 5) Waterfall retreats leaving steep sided gorge.		4. Falling limb is the decrease in river discharge to normal level.		a a b a setflow/ Ground Water Plow €05.4Goverda a b a b a setflow/ Ground Water Plow €05.4Goverda b a b a b a b a b a b a b a b a b a b a		
	Middle Course of a River				Case Study: The River Tees			
l	Here the gradient get gentler, so the water has less energy and moves m slowly. The river will begin to erode laterally making the river wider.							
Formation of Ox-bow Lakes				Geomorphic Processes Upper – Features include V-Shaped valley, rapids and				
I	Step 1 Step 2			waterfalls. High Force waterfall drops 21m and is made from harder Whinstone and softer limestone rocks.				
	Erosion of outer bank forms river cliff. Deposition inner bank forms slip off slope.		Further hydrauli action and abras of outer banks, r gets smaller.	ion	Gradually a gorge has been formed. Middle – Features include meanders and ox-bow lakes. The meander near Yarm encloses the town. Lower – Greater lateral erosion creates features such as floodplains & levees. Mudflats at the river's estuary.			
	Step 3 Step 4 Step 3 Evaporation and		Step 4		Management			
				-Towns such as Yarm and Middleborough are economically and socially important due to houses				

deposition cuts off

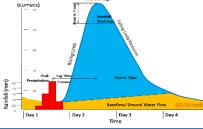
an oxbow lake.

main channel leaving

neck, so river takes the

fastest route,

redirecting flow



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ally and socially important due to houses and jobs that are located there.

-Dams and reservoirs in the upper course, controls river's flow during high & low rainfall. - Better flood warning systems, more flood zoning and river dredging reduces flooding.