## | Landscapes of the UK GCSE topic 1

River landforms		Processes of erosion and transportation	Key terms	
Waterfalls	Created when the river flows over an area of hard rock followed by soft rock.	Attrition: Where pebbles hit each other or landforms, making rocks break and get smaller and rounder.  Abrasion: When sediment is thrown against a surface by water and rubs the material to smooth the land.  solution: Where rocks are dissolved in water.  Hydraulic action: Where water forces its way into cracks, which creates weaknesses in rocks, splitting them apart.  Traction – the movement of larger sediment rolling along the bottom of the sea or a river.  Saltation – small pieces of sediment picked up	weathering	The breakdown of material in situ by physical, chemical and biological processes; if movement is involved this becomes erosion.
Gorges	Over time waterfalls top lip collapses occur and the waterfall retreats creating a		igneous	Rocks formed within the interior of the Earth from molten rock
	gorge.		sedimentary	Rocks formed by layers of sediment, usually at the bottom of the sea.
V-shaped valley	The river erodes vertically downwards near its source creating V-shaped valleys		metamorphic	Rocks that have been changed as a result of heat and pressure being applied to them for long periods of time.
floodplains	When a river floods onto the flood plain the water slows and deposits the eroded material. This builds it up	temporarily in the water Suspension – smaller particles can be suspended in water. Solution – when minerals dissolve in water	geomorphic processes	Processes that result in a change in the shape of the Earth; from 'geo' meaning the earth and 'morph' meaning to change shape.
Meander  The curre outside or Therefore place on the forming a current is of the beautiest of the formaterial in the	The current if faster on the outside of the bend. Therefore more erosion takes	Deposition: the laying down of materials that have been transported (due to loss of energy).	lateral erosion	Erosion sideways; this widens the river valley and channel as the river meanders (bends). If is dominant in the middle and lower course of
	place on the river bend forming a river cliff. The current is slower on the inside of the bend. So eroded material is deposited on the	Beaches - Beaches are areas of land that lie between the storm-tide level and the low-tide level. They can be made up of sand, pebbles or a mixture of both.  Spits - Spits are created when the coastline ends but the process of longshore drift continues. If the conditons are right the sediment is deposited and is built up to create new land.  Caves, arches, stacks and stumps  Erosion by waves widens the weakness in the cliff to form a cave. Waves cut through the headland to form an arch. Collapse of arch due to gravity to form a stack. e) The stack is undercut all the way round as wave cut notches form. It eventually collapses to leave a stump which is covered at high Ade	cross profile	a river.  Shows you what the cross-section of the river channel looks like; it should be narrow and shallow at the source and very wide and deep at the mouth
	inside forming a slip-off slope		longshore drift	The movement of sediments along a stretch of coastline as a result of wave action
	erosion causes the outside of bends to become closer and the river breaks through.  Depositon cuts off the meander forming an ox-bow lake		sea walls	Walls made on concrete to reflect and absorb wave energy to prevent erosion.
			rip-rap barriers	Large rocks placed in front of cliffs to dissipate wave energy to protect the cliffs behind from erosion.
Levees	Raised banks formed by repeated flooding and deposition of river sediment (alluvium) on the river banks		gabions	Wire cages filled with stone used to absorb wave energy to prevent erosion

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