## **SUBJECT:** Geography

## **UNIT:** KS4 Physical Landscapes - Rivers



	Types of Erosion		Transportation		
	The breaking down of rocks.		Traction – large material being	Traction	Saltation
	Attrition	Rocks that bash together to become smooth/smaller.	rolled or pushed	amman	10,00,00
			Saltation – smaller material bouncing along	00000	Solution
	Solution	A chemical reaction that dissolves rocks.		Suspension Solution	
	Abrasion	Rocks hurled at the base of a cliff to break pieces	Suspension – tiny material floating		
	l liveline vilie	apart.		What is Deposition?	?
	Hydraulic Action	Water enters cracks in the cliff, air compresses, causing the crack to expand.	Solution – dissolved material moving	When a river loses energy, it drops the sand, rock particles and pebbles it has been carrying. This is called deposition.	

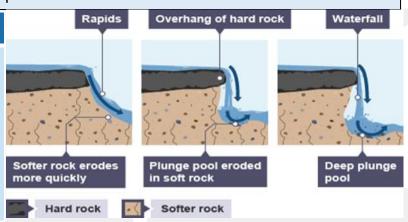
**Erosional landforms** – v-shaped valleys, interlocking spurs, waterfalls and gorges.

**Erosional and depositional landforms** – meanders and oxbow lakes.

**Depositional landforms** – levees and floodplains.

## Formation of a waterfall

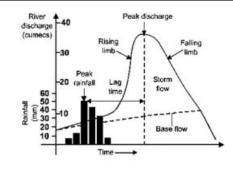
Hard rock overlies softer rock, which is eroded quicker and a plunge pool is created. The softer rock is undercut by hydraulic action and abrasion leaving an overhang of hard rock. Due to a lack of support, the overhang collapses and the waterfall retreats. The process starts again. Eventually a steep sided valley called a Gorge is formed.



**Hard engineering** – man-made defences build to control river flooding e.g. dams, straightening meanders, embankments and flood relief channels.

**Soft engineering** – sustainable approach to reduce the impacts of erosion e.g. flood plain zoning, flood warnings and preparation.





**Hydrograph** – shows how a river discharge changes in response to a precipitation.

Flood factors – things that can increase the risk of flooding. Split into human and physical factors.