Key concepts		Year 7 How do physical processes shape our local area			Key Terms		
All students should understand what the hydrological cycle is and related key terms.					Drainage basin		A drainage basin (catchment area) is an area of land that acts like a sponge, carrying water out to the sea.
Students to be able to describe the drainage basin of the River Wharfe using key terms. To understand how the		Upper Course	Upper Course Middle Course		Watershed		the area of high land forming the edge of a river basin.
river Wharfe changes from source to mouth.		Waterfalls	(Bolton Abbey)	Estuary Floodplain Delta Levees cial – the effects on ople onomic – the effects the economy oney) vironmental – the ects on the	Source		where a river begins.
looking at the river Wharfe as an example.		Interlocking spurs Gorges	Wide 'U shaped' valleys		Mouth		the end of a river, usually where it meets the sea
To understand the social, economic and environmental impacts of flooding, with reference to the Otley floods		shallow and its course is	(whartedale		Confluence		the point at which two rivers meet.
The positives and negatives of a range of flood		quite steep.	So		Tributary		a small river or stream that joins a larger river.
engineering and applied to flood management in Otley.		Drainage Basin	Eco		Channel		where the river flows.
To understand the importance of mud.		River	Tributary (m		Drainage Basin		the area of land drained by a river and its tributaries.
To complete a piece of field work on infiltration rates. To write up a piece of field work		Watershed	eff		Surface runoff		When water runs off the surface
Why Do River Flood?		Month	en an	vironment (habitats d landscape)	Infiltrate		When trees stop rain from hitting the ground
Human Factors	Physical Factors	Hard Engineering	Soft Engine	Soft Engineering		ble	When water cannot soak into a surface
Altering the river course	Very wet soil	Dams and reservoirs	River resto	oration/Afforestation	Intercept		When trees stop rain from hitting the ground
Cutting down trees (deforestation)	Steep slopes	Channel straightening	Flood warr	nings	Evaluate		Consider what went well in your
Buildings	Impermeable rock	Flood relief channels	Floodplain	zoning			fieldwork investigation and what could have been improved.
	Hard dry soil	Empankments	areas	etianus and nood storage		The sta	ges of a Fieldwork Investigation
	Continuous Rainfall	Nutseri 🛛 🗤		does not involve building a structures, but takes a mor	rtificial <sup>-</sup> e	1.Identifying what you are going to investigate	
Blocked drains				sustainable and natural approved the potential for flooding. Each approach ba	proach to river	2. Choosing appropriate methods of data collection	
		Types HISTOGRAM Concerty regardle and the second se	RADAR CHART WATERFALL CHART "you wer to bold a complex stored resurt birth of the complex stored resurts that you does any stored resurts	advantages and disadvanta	iges.	3. Colle	ecting your data
		still of the behavior et it was that the own the ow		Hard engineering: Involves building artificial s which try to control rivers.	4. Prese tructures approp They		enting the data you have collected in riate graphs
			SCATTERPLOT BOX PLOT	tend to be more expension tend tend to be more expension tend tend tend tend tend tend tend ten		5. Anal	ysing your data and reaching conclusions
		PLD VITART LINE START AREA CHART TO THE OFFICE OF THE OFFICE OFFICE OF THE OFFICE OFFI	Very workd to find catlien, juci like trapede hat connexity coment dense, hanne hand bede heit RA in wath by the agend 16.	advantages and disadvanta	iges.	6. Evaluating your investigation.	