The source of the River Brit is just to the north of Beaminster. It flows south to Netherbury and then Bridport. At Bridport it is joined by two tributaries, the River Asker and the River Simene. Its mouth is south of Bridport in Lyme Bay. Its course is just over 15km.

In 2020 a £1.5 million scheme was built to stop the river from flooding in the area near Parkdean holiday park. The river used to be heavily polluted from the rope industries and sewage. The river environment has been improved.



Impermeable rocks - do not allow water to soak into them e.g. clay.

Processes -Actions that lead to changes in a place. Landforms natural features made by nature e.g. waterfalls

3

R

V

Е

R

Ρ

R

0

С

Е

S

Attrition

Corrosion

Abrasion



The break down and tran

Hydrographs and River Discharge





1 Erosion		2 Transportation			
preak down and transport of rocks – smooth, round and sorted.		A natural process by which eroded material is carried/transported.		Suspension Solution	
n	Rocks that bash together to become smooth/smaller.	Solution	Minerals dissolve in water and are carried along.	Traction (Saltation	
on	A chemical reaction that dissolves rocks.	Suspension	Sediment is carried along in the flow of the water.		
n Rocks hurled at the base of a cliff to break pieces apart.		Saltation	Pebbles that bounce along the sea/river bed.	River Bed Deposition	
ic	Water enters cracks in the cliff, air compresses, causing the crack to expand.	Traction	Boulders that roll along a river/sea bed by the force of the flowing water.	When the river loses energy, it drops the sand, rock particles and pebbles it has been carrying. This is called deposition.	•
		river		vsical landscapes ir local area?	
annal is d	leaner and				

Physical and Human Causes of Flooding.					
<i>Physical:</i> Prolong & heavy rainfall Long periods of rain causes soil to become saturated leading runoff.	Physical: Geology Impermeable rocks causes surface runoff to increase river discharge.				
Physical: Relief Steep-sided valleys channels water to flow quickly into rivers causing greater discharge.	<i>Human:</i> Land Use Tarmac and concrete are impermeable. This prevents infiltration & causes surface runoff.				
River Management Schemes					
Soft Engineering	Hard Engineering				
Afforestation – plant trees to soak up rainwater, reduces flood risk. Land-use zoning – planning what the land next to rivers is used for e.g. parks not housing Ecological Flooding – naturally let areas flood, protect settlements.	Straightening Channel – increases velocity to remove flood water. Artificial Levees – heightens river so flood water is contained. Deepening or widening river to increase capacity for a flood.				

The formation of a waterfall



Physical features – Natural things like mountains, rivers, waterfalls, deserts. Human features – Things made by people like roads, buildings, farms. Sustainable development - Using rivers in a way that they will still be there for future generations to enjoy, whilst at the same time meeting the needs of local people. Soft engineering is sustainable.



What are physical landscapes like in our local area?



Formation of ox-bow lakes (a) Sediments deposited (b) **Banks** liable on inside of bend to erosion Current Newer stronges on outsid deposits of of bend sediment Gap between Older Rapid two arms of deposits of river narrowed erosion o sediment banks on by erosion Strongest outside o current Old path of rive (c) **River still** (d) flows around now dry

Current along straighter path becomes Abandoned Figure 1.13 meander or The development of oxbow lak an oxbow lake

Formation of v-shaped valleys



Formation of Floodplains and levees

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.

Nutrient rich soil makes it ideal for farming.

