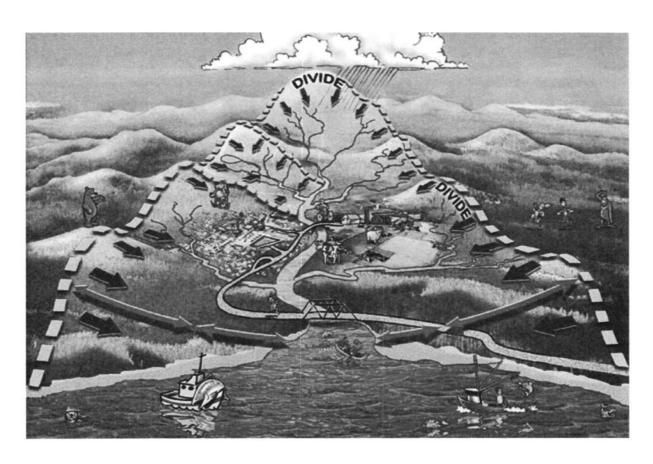
RIVER LANDSCAPES REVISION



Activity Booklet

What is a drainage basin?

Rivers begin in upland areas and make their way down to the sea. Label the diagram below of a drainage basin using the labels provided.

- > Watershed
- > Tributary
- > Confluence
- > Source
- > Mouth
- > Channel



Complete the table below.

Feature of drainage basin	Meaning
Watershed	
Tributary	
Confluence	
Source	
Mouth	
Channel	

How do rivers erode?

There are 4 ways in which rivers are eroded. Complete the table below.

Hydraulic action	Corrasion (abrasion)
Try dr dans dorron	
Corrosion (solution)	Attrition
Corrosion (solution)	ZIII III OII

<u>Weathering</u>

There	are	3	types	of	weathering.	They are:	

- > Physical
- > Chemical
- > Biological

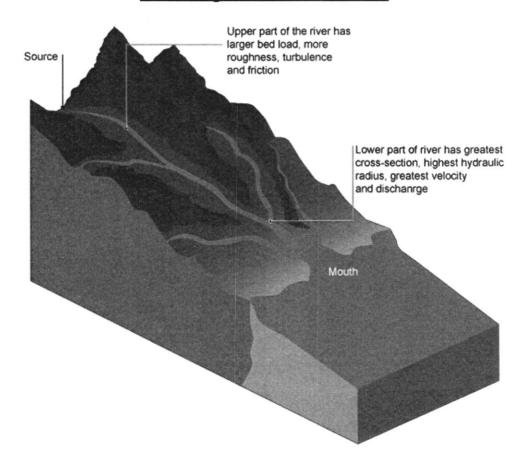
Phys	ical weath	ering is where	water gets ir	ito cracks ir	rocks. When	the
temp	perature fo	alls below free:	zing, the wate	er will expan	d and turn into	ice. This
puts	pressure o	on the rock and	l eventually it	will break.		
Drav	v and annot	tate 3 diagrams	s to show this	s process.		
						
a 1						
		10.000 M			acids than can	
				stone are d	issolved by the	se weak
acia	s and this c	causes the rock	сто вгеак.			
Biolo	ogical weat	hering is the a	ction of plant	ts and anima	ils on the land.	Seeds
			_		oisture is pres	
					time can breal	5.0
			bbits can also	be respons	ible for the fu	rther
bred	ık up of roc	CKS.				
Drav	v and annot	tate 3 diagrams	s to show this	process.		
]				

Mass movement

Mass movement is when material moves down a slope due to the pull of gravity.

Soil creep	<u>Slumping</u>
Sliding	Rock fall

The Long Profile of a River



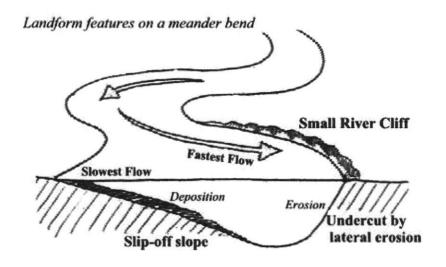
Complete the table below with the features of the river and its valley.

Upper	Middle	Lower

Landforms in River Valleys

Upper Course	
<u>V-shaped valleys</u>	
<u>Interlocking spurs</u>	
Wate	rfalls
Draw and annotate a diagram in the box	below to show the formation of a

Middle Course



Above is a diagram of how a meander is formed this process in your own words.	l. Write a paragraph to describe

Lower Course

The rivers main process has now become deposition as a result of the large load
of eroded material that it is carrying. A number of features such as ox-bow
lakes, floodplains, levees and deltas can be found in the lower course.

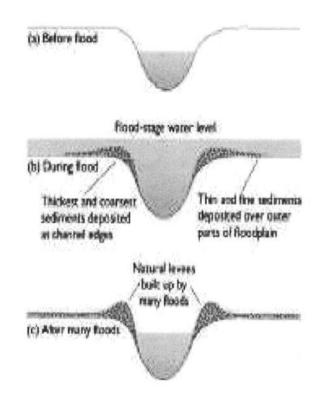
Ox-bow lake formation

Draw and annotate a diagram below to show the formation of an ox-bow lake.			



Oxbow lake

Formation of Natural Levees



Examine the processes involved in the f	ormation of levees and floodplains in			
the space below.				
Flooding and Fl	ood Prevention			
What are the human and physical causes of flooding?				
HUMAN	PHYSICAL			

Hard and Soft Engineering Techniques

Hard engineering technique	Description	Advantages	Disadvantages

Soft Engineering Techniques

Soft Engineering Technique	Description	Advantage	Disadvantage