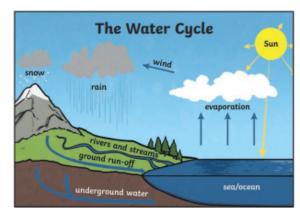
Theme	Lesson Titles /	Learning Outcomes				
	Enquiry Questions					
Rivers	L1 - Water Cycle	To use key words to accurately label a diagram of the water cycle.				
	How does water	To explain how rain is formed using keywords.				
	travel around the	To describe, using keywords at least three routes around the water cycle.				
	world?					
	L2 - Drainage Basin	To use key words to accurately label a diagram of the water cycle.				
	How does water	To explain how the river channel changes downstream.				
	travel from source to mouth?	To describe, using keywords how a water droplet travels from source to mouth.				
	L3 - River Processes	To recall the stages of the water cycle including key terms.				
	How powerful is	To recall key terms related to glaciation in previous chapter.				
	water?	To apply such key terms and build upon these linking to river processes.				
	L4 - Waterfalls	To describe the features of a waterfall.				
	What landforms do	To explain how a waterfall forms using key terms.				
	we find in the upper	To explain how a water fair for his using key fer his.				
	course of a river?					
	L5 - Meanders	To describe the main features of a rivers course.				
	What landforms do	To use maps to identify key features of a river.				
	we find in the middle	To describe the features of a meander and oxbow lake.				
	course?	To explain how a meander and oxbow lake forms.				
	L6 - Causes of River	To recall key terms.				
	Flooding	To explain the various reasons why rivers flood.				
	Why do rivers flood?					
	L7 - Flood	To identify flood management strategies.				
	Management	To describe and explain flood management strategies.				
	Can we stop rivers	To analyse the suitability of flood management strategies for a case study location.				
	from flooding?					
	L8 - River Severn	To identify where the river Severn is located				
	Case Study	To describe and explain the causes of flooding along the river Severn.				
	Why did the river	To analyse the impacts of flooding along the river Severn.				
	Severn flood in					
	2020?					
Homework	L1 - Reading and highlighting answers to 7 key questions found in the text - Water Cycle					
	L3 - Seneca Learning 8.1.1, 8.1.2 and 8.1.3 - Geography KS3					
	L5 - Seneca Learning 8.1.4 - Geography KS3					
	L7 - Seneca Learning 8.2.1, 8.2.2 - Geography KS3					

Evaporation	Condensation	Precipitation	Transpiration	Groundwater Flow	Overland Flow
****		••••			
Liquid water turning	Water vapour turning	The falling of moisture	The release of water	Water that flows	Water that flows over
into a gas (water vapour)	into liquid again once it cools.	from the clouds.	from plants.	beneath the ground	the surface.
Interception	Saturation	Infiltration	Drainage Basin	Watershed	River Channel
•					335
The stopping / slowing	When the ground	The soaking of water	An area of land that	The boundary between	The main part of the
of water reaching the	becomes completely	into the ground.	water flows into a	two drainage basins.	river.
river.	soaked with water.		single point.		
Source	Mouth	Tributary	Confluence	Erosion	Transportation
335	_50	-	330		
	Where the river meets	A stream / smaller river	The meeting point of	When land is worn	The movement of
The start of the river	the sea	than eventually meets a larger river.	two streams / rivers.	away and transported away.	sediment by the river.
Deposition	Traction	Saltation	Suspension	Solution	Hydraulic Action
	-2-U-G				*
When a river no longer	When large boulders	When pebbles, skip	When smaller	When sediment such	When the force of fast-
has enough energy to	role along the river	and bounce along the	sediment such as sand	as clay is dissolved in	flowing water hits the
move material it drops	bed.	river bed.	float as the river	the river and carried as	bed and banks and
(stops moving)			moves.	it flows.	forces water and air
					into cracks in the
					bedrock.

Abrasion	Attrition	Solution	River Banks	Resistance	Plunge Pool
**			River bank River bank		₩
The wearing away of the banks of the river as rocks collide with it.	The breaking down of rocks into smaller pieces as a result of colliding with each other.	When sediment such as clay is dissolved in the river and carried as it flows.	The sides of a river	How much a rock can withstand erosion.	The deepest part of a waterfall.
Retreat	Undercuts	Gorge	Meander	Oxbow Lake	Permeable
	-}0		N		-•-↓
The moving back of a waterfall.	When the base of the river is eroded by water which causes it to collapse.	A steep sided valley left behind as a waterfall retreats.	A bend in a river.	A curved lake formed when the river cuts across	Allows water to soak through.
Impermeable	Dam	Pollution	Sustainable	Embankment	Overflow Channel
<u>•</u>	กากก			<u> </u>	
Does not allow water to soak through.	A man made structure used to hold back the flow of water.	When harmful substances are added to the environment.	Meeting the needs of current generations without compromising future generations.	The man made barriers on the sides of a river.	A man made structure which allows the river to overflow into another river channel.

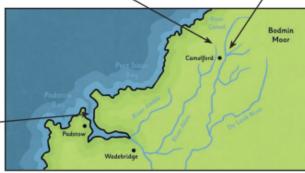


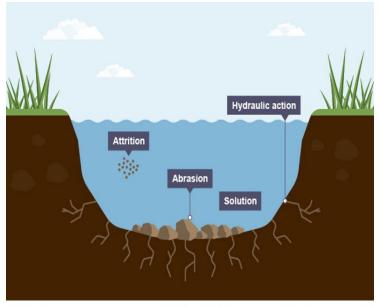
Rivers in England, at their mouth, will flow into either the:

North Sea, Irish Sea, English Channel or Atlantic Ocean.

Some rivers join up with other rivers (tributaries). The point where they meet is called a confluence.

The source of most rivers is on high ground or in the mountains.





# The Course of a River

## The Upper Course

Rain falling on high ground collects in channels and flows downwards forming a stream. Streams run downhill and join other streams, increasing in size and speed, forming a river. The river here flows quickly and the channel has steep sides and runs through valleys.

Features include - waterfalls and rapids.

#### The Middle Course

Fast flowing water causes erosion making the river deeper and wider.
Features include - meanders.

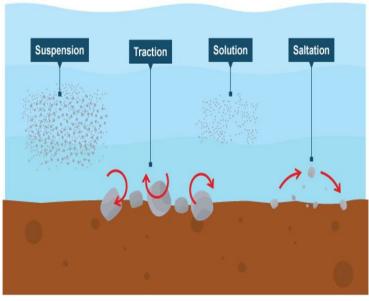


### The Lower Course

Rivers flow with less force due to being on flat land. The river deposits the eroded material that it has carried.

Riverbanks have shallower sides.

Features include - floodplains, deltas and estuaries.



#### Meander - a curve in the river



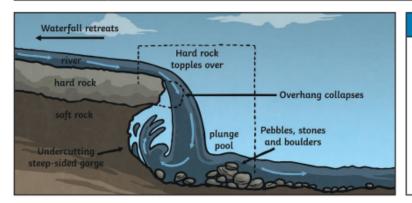
Eroded materials are carried by the river and released, building up the land on the inside of the bend where the water flows more slowly.

## Oxbow lakes - a U-shaped lake



As meanders grow, two meanders can merge together through erosion. The water takes this newer, shorter course. The river deposits eroded materials which block off the old part of the river forming an oxbow lake.

How Do We Use Rivers?					
Leisure	+	Controlled population of fish			
e.g. fishing	-	May leave litter and pollute the water			
Industry	+	Sections of rivers maintained			
e.g. factories	-	Chemicals pollute the water and habitats			
Tourism e.g.	+	Conservation and education about local wildlife			
walking routes	-	Too many people near wildlife habitats			

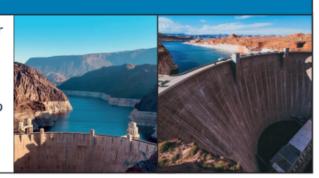


#### Dams

Dams are built to hold water back, usually in a reservoir.

Dams might be built to:

- control the flow of a river to prevent flooding.
- generate power



### **Hydroelectric Power**

- 1. Water is held behind a dam.
- 2. When needed, some of the water is released and flows through a pipe (penstock).
- 3. The falling water turns a water wheel (turbine) which is linked to a generator which produces electricity.
- 4. The water continues into the river on the other side of the dam.

