Lesson one: Journey of a River

Locational Knowledge	Place Knowledge	Key questions and ideas	Teaching and learning activities	Resources
	Interpret a range of geographical information Communicate geographical information in a variety of ways	To understand how rivers are formed. To understand that the features a river and the surrounding landscape change from source to mouth.	STARTER: Show pupils photographs depicting the River Severn the three stages- the upper, middle and lower course with no contextualisation from the class teacher. Pupils identify enquiry questions: what, where, when, why? Can they see evidence to help them answer these questions? MAIN ACTIVITY: Either, pupils to complete an annotated diagram of a river from source to mouth. Or, pupils make a 3D model of a river from source to mouth. PLENARY: Become a class river. Using the photographs and labels provided, pupils need to arrange themselves from source to mouth, ensuring that the correct geographical features are depicted in order and the labels situated at correct points along the river's	Interactive: To ensure prior knowledge of the water cycle. http://www.crickweb.co.uk/ks1science.html#watercycle Google Earthhttps://www.google.co.uk/intl/en_uk/earth/ Downloads: Journey of a River (PPT) Journey of a River factsheet for teachers PDF MS Word Journey of a River plenary activity PDF MS Word Journey of a River 3D Model PDF MS Word Examples of pupils' work MS Word World Map PDF MS Word
Human and Physical Geography Describe and understand key aspects of physical geography, including rivers and the water cycle Describe and understand key aspects of human geography, including the distribution of natural resources including water	Geographical Skills and Fieldwork		Homework: Pupils should use an atlas to name and locate the longest rivers in each continent. Also, expect pupils to include countries and/or cities in which the source and mouth of each river is located. Pupils should also name the five oceans.	Assessment opportunities Assess prior learning of the water cycle. The plenary activity will also assess pupils' understanding of the key features of a river from source to mouth.

Advancing geography and geographical learning

Lesson two: Flooding

Locational Knowledge	Place Knowledge	Key questions and ideas	Teaching and learning activities	Resources
Name and locate	Lindaretand annumbical	To understand the factors	STARTER:	Interactive:
counties and cities of the United Kingdom,	Understand geographical similarities and differences through study	that cause rivers to flood.	The whole class takes part in the Follow-Me Loop	Google Earth
geographical regions and their identifying human and physical characteristics, key topographical features (including rivers), and land-use patterns; and understand how some of these have changed over time.	of human and physical geography of a region of the United Kingdom Understand the processes that give rise to key physical and human geographical features of the world Interpret a range of geographical information Communicate geographical information in a variety of ways	To understand what happens to the physical environment when flooding occurs. To understand the human impact of a major flood event. To understand how to prepare for flooding.	Card activity based on the teaching and learning from the previous lesson, 'Journey of a River'. MAIN ACTIVITY: Pupils will complete a Flood Flow Chart detailing the stages of a flood event from heavy precipitation, to overbank flow, through to cleaning up. PLENARY: Pupils take part in a Hot Seat activity in which they take on the role of a hydrologist, local resident, farmer or business owner affected by flooding. Other pupils pose the questions.	Downloads: Flooding (PPT) Flooding factsheet for teachers PDF MS Word Flooding flowchart PDF MS Word Examples of pupils' work PDF MS Word Follow-Me Loop Card activity PDF MS Word Web Links: - To look up whether your area is liable to flooding go to the Environment Agency website http://watermaps.environment- agency.gov.uk/wiyby/wiyby.aspx?topic=floodmap#x=42551 3&y=333158&scale=3 - For detailed guidance on flooding go to the Environment Agency website https://www.gov.uk/government/organisations/environment- agency - For information on how to prepare your property for flooding go to the UK Government website https://www.gov.uk/government/uploads/system/uploads/att achment_data/file/292943/geho1009brdl-e-e.pdf
Human and Physical Geography	Geographical Skills and Fieldwork			Assessment opportunities
Describe and understand key aspects of physical geography, including rivers	Use maps, atlases, globes and digital/computer mapping to describe features studied.			Formative assessment of prior learning from the starter activity.
Describe and understand key aspects of human geography, including types of settlement and land use and the distribution of natural resources including water				

Lesson three: Mapping the River Thames

Locational Knowledge	Place Knowledge	Key questions and ideas	Teaching and learning activities	Resources
Name and locate counties and cities of the United Kingdom, geographical regions and their identifying human and physical characteristics, key topographical features (including rivers), and landuse patterns; and understand how some of these have changed over time. Human and Physical Geography	Understand geographical similarities and differences through the study of human and physical geography of a region of the United Kingdom Interpret a range of geographical information including maps Communicate geographical information through maps	To name and locate the five longest rivers in the UK. To understand the key features of an OS map including:	STARTER: The whole class takes part in an 'Around the world' challenge- see the Mapping the River Thames Lesson Plan for details. MAIN ACTIVITY: Pupils will complete a Mapping the River worksheet. Pupils will investigate OS map extracts of the river at different points, answering questions that utilize key mapping skills. PLENARY: Pupils look at three photographs, displayed on the PowerPoint. Using their knowledge of the characteristics of river in the upper, middle and lower course and their knowledge of the River Thames from the mapping activity, can they decide which photograph belongs with which of the three map extracts. Homework: Pupils should use an atlas to name and locate the longest	Interactive: Google Earth Downloads: Mapping the River Thames (PPT) Mapping the River Thames factsheet for teachers PDF MS Word Mapping the River Thames Worksheet PDF MS Word Mapping the River Thames Answersheet PDF MS Word UK Outline Map PDF MS Word Ordnance Survey Key PDF MS Word Mapping the River Thames Map Extracts x3 (JPEG) Web links: - OS Digimap for Schools package: http://digimapforschools.edina.ac.uk/cosmo/home - To view the RGS-IBG Map Skills subject knowledge animation, go to the RGS-IBG website http://www.rgs.org/OurWork/Schools/Teaching+resources/Ke y+Stage+1- 2+resources/Subject+knowledge+animation+Map+skills.htm - The complete key for the OS Landranger 1:50 000 series: http://www.ordnancesurvey.co.uk/docs/legends/50k-raster-legend.pdf Additional resources String or thick cotton (optional; paper can also be used)
Describe and understand key aspects of physical geography, including rivers Describe and understand key aspects of human geography, Including: types of settlement and land use, economic activity including trade links	Use maps and digital mapping to describe features studied Use the eight points of a compass, four and six-figure grid references, symbols and key (including the use of Ordnance Survey maps) to build their knowledge of the UK		rivers in the UK. Expect pupils to include principle towns and cities, high peaks and seas. to use an outline map of the UK	The starter activity assesses prior learning. The main activity will test pupils' ability to use maps and interpret data from them. The plenary will assess whether pupils can use their knowledge about the characteristics of a river from source to mouth (from Lesson 1) and combine this with mapping skills.

Lesson four: The River Thames

Locational Knowledge	Place Knowledge	Key questions and ideas	Teaching and learning activities	Resources
Name and locate counties and cities of the United Kingdom, geographical regions and their identifying human and physical characteristics, key topographical features (including rivers), and land-use patterns; and understand how some of these have changed over time	Understand geographical similarities and differences through the study of human and physical geography of a region of the United Kingdom Interpret a range of geographical information including maps	What are the physical characteristics of the River Thames? How does the River Thames shape the surrounding landscape? How does the River Thames change throughout its course? How do people interact with the River Thames and surrounding landscape? Why is the River Thames liable to flooding? What is the role of the Thames Flood Barrier in preventing flooding? How does the Thames Flood	STARTER: In the last lesson, <i>Mapping the River Thames</i> , pupils were asked to devise two enquiry questions of their own. Ask the class a selection of these pupil-generated questions. Use the copy of Map Extract 3 on the accompanying PowerPoint, or allow pupils to refer to their own copy of the extract. MAIN ACTIVITY: Pupils will complete a diagram of the long profile of the River Thames from source to mouth. Pupils should label the key locations the river passes through. Then, using arrows, and information boxes at different points, pupils can include extra diagrams and facts. Higher ability pupils could draw their long profile onto graph paper- devising a scale on the y axis for height of land, showing how the river flows from an elevation of 110m at its source to approximately 4 metres at Teddington Lock to 0 metres at the estuary. PLENARY:	Interactive: Google Earth Downloads: The River Thames (PPT) The River Thames Lesson Plan PDF MS Word The River Thames Factsheet PDF MS Word Links: For an animated guide to how the Thames Barrier works follow the link: https://www.youtube.com/watch?v=GricS4iCgtc To look up whether an area is liable to flooding. http://watermaps.environment-agency.gov.uk/wiyby/wiyby.aspx?topic=floodmap#x=425513&y=333158&scale=3
Human and Physical Geography	Geographical Skills and Fieldwork	Barrier work?	Peer assessment: Allow pupils to show their partners their work. Scan in copies of pupils' work if a scanner is available. Ask for peer assessment-what worked well, what could be improved upon.	Assessment opportunities
Describe and understand key aspects of physical geography, including: rivers Describe and understand key aspects of human geography, Including: types of settlement and land use, economic activity including trade links	Use maps and digital mapping to describe features studied Use the eight points of a compass, four and six-figure grid references, symbols and key (including the use of Ordnance Survey maps) to build their knowledge of the UK		Ensure pupils comment on the geographical content of the work- not just the neatness of the presentation.	Formative assessment of prior learning from the starter activity. Can pupils remember the 8 points of the compass? Using an OS map, can they interpret symbols on a key? During the main teaching, can pupils remember significant information for example the location and elevation of the source and mouth? Can they remember the significance of the drainage basin in flooding?

Lesson five: Waterfalls

Locational Knowledge	Place Knowledge	Key questions and ideas	Teaching and learning	Resources	
			activities		
Locate the world's countries,	Understand geographical	In what course are waterfalls a	STARTER:	Interactive:	
using maps to focus on North	similarities and differences	feature?	Share with pupils Annie Edson	Google Earth	
and South America,	through the study of human and		Taylor's remarks: "Nobody ought		
concentrating on their key	physical geography of a region	How are waterfalls formed?	ever to try that again." Ask	Downloads:	
physical and human	of the United Kingdom	What physical processes are	pupils who could have said this	Waterfalls (PPT)	
characteristics		involved in their formation?	and what feat should nobody	Waterfalls Lesson Plan PDF MS Word	
	Develop contextual knowledge		ever try again?	Waterfalls Factsheet PDF MS Word	
Name and locate counties and	of the globally significant places	What features are characteristic		Examples of pupils' work PDF MS Word	
cities of the United Kingdom,	including their defining physical	of waterfalls?	MAIN ACTIVITY:		
geographical regions and their	characteristics and how these		Pupils should complete either:		
identifying human and physical	provide a geographical context	How do humans use waterfalls?	Astarfall flire baals. The	Links:	
characteristics, key topographical features (including	for understanding the actions of	(With an emphasis on tourism and hydro-electric power).	A waterfall flip-book: The waterfall can be drawn in cross	A short report on Will Gadd's tightrope walk	
rivers), and land-use patterns;	processes	and nydro-electric power).	section and show the stages of	across Niagara Falls also been seen at:	
and understand how some of	Understand the processes that	Which waterfalls have global	waterfall formation.	http://www.bbc.co.uk/newsround/31060065	
these have changed over time	give rise to key physical and	significance? (Angel Falls in	wateriali formation.		
these have changed over time	human geographical features of	South America- the highest	This activity could also be	A short clip explaining the formation of High	
	the world	waterfall in the world, Niagara	tailored to the production	, ,	
		Falls in North America- which	waterfall stop-go animation.	Force waterfall and showing it flowing. (Play	
		attracts 12 million tourists every	Waterian step go armination.	the first half of the clip only).	
		year).	A waterfall model: Pupils can	http://www.bbc.co.uk/education/clips/z63qxnb	
		, , ,	make a model of the cross		
Human and Physical	Geographical Skills and	Which waterfalls are significant	section of a waterfall in	Assessment opportunities	
	Fieldwork	in the UK? (Gaping Gill the	plasticine. Use several different	Assessment opportunities	
Geography		highest in England and High	colours of plasticine to represent	The almost of the second their	
Describe and understand key	Use maps, atlases, globes and	Force- with significant gorge	the different rock strata, the river	The plenary activity assesses their	
aspects of physical geography,	digital/computer mapping to describe features studied.	development).	banks, the plunge pool and the	understanding and knowledge from the Waterfalls unit.	
including rivers	describe realures studied.		water itself. High ability pupils	waterialis uriit.	
including livers			could write labels for each		
Describe and understand key			feature, securing them with		
aspects of human geography,			cocktail sticks.		
including types of settlement					
and land use, economic activity			PLENARY:		
and the distribution of natural			Pupils can play the game 'Just a		
resources including energy and			Minute'.		
water					
			Can they speak for one minute		
			without hesitation, repetition or		
			deviation (and using factual		
			information and correct		
			vocabulary) about Rivers?		