

## **Mendell Primary School**

Aspire Challenge Achieve



## **Medium Term Plan Geography – Spring term**

Year Group: 4	Term:	Teacher:	Subject lead:	Overview: Rivers Key End Poin		Key End Points: By the e	s: By the end of this unit children will be able to:		
	Spring	Hannah Jones	Amy Harris	s Understanding the stages and processes - Name the five stages		- Name the five stages of	f a river		
	#2	of a river. Studying rivers of the world - Name and expla		- Name and explain the 3	he 3 key processes of a river				
	2022			and investigating the	·		rivers of the UK	vers of the UK	
						- Explain how the water	cycle works		
Links to other learning: Science: The water cycle (evaporation)	Relevant I Learning: Y2 Floodir Weather	Learning:	Text: Why water's worth it Lori Harrison	Risk Assessment: River Trip – see RA in lesson resources	cycle include the belief flow inland! Many pup evaporated up into the oceans, yet in reality p moisture from out of p vapour in the atmosph Pupils often carry with images of rivers: typica	ons about rivers and the water that rivers start at the sea and ils also believe that water is only atmosphere from the seas and uddles, ponds, lakes and even the lants all contributes to the water ere.  them their own stereotypical ally located in the countryside, with d banks lush with vegetation and	Teacher CPD: - CPD factsheets provided in the resource folder for each lesson (please read all CPD prior to starting the lesson sequence)		
<u>Learning</u>			<u>Lesson O</u>	<u>utline</u>	wildlife. Yet the reality	is that many urban rivers are concrete walls and heavily polluted.  Resources	Vocabulary	Lowest 20%	
Intention								Adaptations	
I I can identify the stages and journey of a river	environments Explain to the to help us thin Dee in the thre where it might  Pupils conside e.g. Where do it? Who uses i  Explain how pl course in Nort Show children interactive box  The or v roc flow	pupils that the skills we lik like a geographer and ee stages- the upper, mid toe?  If the following questionses the river start? Where the stages and the lower course the slide on Powerpoint and or on whiteboard) as the upper course of a river water emerging from a sky. The water travels quentle like in the slide on the slide of the slide o	are going to learn today are ho dentify the stages of a river. Stalle and lower course with no and how they would find the edoes it end? What creatures long is it? What can you see a ler Dee, a local river from the course running through Chester which shows the three stages you give the following explansistants at its source. The source oring in the ground. The riverbockly over the rocks, making the the rock, forming a V-shaped sof the upper course.	ow to use secondary sources of how pupils photographs depicontextualisation (see resour answers slive in it? How do you cross long the riverbanks? Discuss upper course in Snowdonia, to compare the first of the river. Annotate this (elations:	bif information cting the River ces). Ask them  it? How wide is as class.  the middle dither on the hills ep, narrow and ving. As the river	on PowerPoint striver diagram If of the week vocabulary slips	River source Upper course Middle course Lower course Estuary River mouth Erosion Precipitation floodplain Journey River Dee Snowdonia North Wales Chester Riverbank Shallow Deep vegetation		

		<ul> <li>The middle course is where the landscape flattens. The river becomes wider and deeper, and the water moves more slowly. The river curves from side to side, forming bends called meanders. As the water erodes the riverbanks on the outside curves of meanders, it carries soil, silt, sand and stones and deposits them on the inside of the bends. As the river moves towards the lower course, meanders become larger. Sometimes, the main river cuts across the meander to form an oxbow lake.</li> <li>The land becomes very flat in the lower course, where the river nears sea level. At the river mouth, some rivers run into wide estuaries. Silt is deposited in the estuary and washed into the sea at high tide. Where the silt is not washed away, it creates a landform called a river delta. The river ends its journey by flowing into the sea.</li> <li>Children to annotate the blank diagram of a river with the words mouth, source, upper course, middle course and lower course. Children are to write a short explanation of the characteristics of each course in their own words.</li> <li>Share the following video clip with children to introduce the concept of rivers in more detail: Rivers - BBC Bitesize</li> <li>Word of the week: River source - Pupils to explain the meaning of this in books.</li> </ul>			
2	I know how rivers can change the landscape over time	This is a Geography lesson. Geography is the study of places and relationships between people and their environments.  Explain to the pupils that the skills we are going to learn today are use secondary sources of information to help us think like a geographer and identify how rivers can change the landscape over time.  Enquiry question: How do rivers change the landscape over time?  Present pupils in small groups images of rivers that have been affected by weathering, transportation etc (see resources) Ask children to discuss and infer what they think might have happened to the rivers?  Share the following video link with the pupils: <a href="https://www.youtube.com/watch?v=ymTAKdFeV14">https://www.youtube.com/watch?v=ymTAKdFeV14</a> Using key vocabulary, model using a 'tuff tray' and play sand. Use the sand to create a river path across the tray which has some turns and meanders. Position near a hose pipe and create a flowing river and model the three processes.  Pupils to complete a small, labelled drawing and paragraph in their books to explain the three processes of erosion, deposition and transportation.	Word of the week vocabulary slips Lesson PowerPoint Erosion, deposition and transportation poster Tuff tray Play sand Hosepipe	Erosion Deposition Transportation Landscape Weathering Highland Flatland Meanders Estuary Narrow channel Wide channel	Pupils to use class river posters s visuals to provide peer support for the three processes of river change.
3	I can identify key rivers within the UK and explain the impact of their flooding	Word of the week: erosion – pupils to explain the meaning of this in books.  This is a Geography lesson. Geography is the study of places and relationships between people and their environments.  Explain to the pupils that the skills we are going to learn today are to use map skills to help us think like a geographer and identify rivers including to find out about and explain the impact of rivers flooding.  Starter – provide pupils with a blank map of the UK (recap four countries of UK from Yr1). Children to use Digimaps to locate the following rivers and mark them on their maps: River Thames, River Mersey, River Dee, Great Ouse and River Severn.  Explain to the pupils that the focus for today is on rivers flooding and the impact this has on our society. Ask the children to discuss: What happens when a river breaks its banks? What do you think causes flooding?  Challenge the theory that rivers only flood as a result of prolonged rain. Explain that it is also due to the topography of the landscape, and morphology of rocks and soils. Human activity also plays its part; with growing urbanisation often comes an increased likelihood of flooding. do pupils think the impact of this flooding is?  Share the power point on flooding (see resources) with the pupils to show how a flood begins and the impact of flooding. Pupils to create a flowchart to illustrate this and explain the impact of flooding. (See teacher CPD document for suggested flowchart to model ideas and see resources for pupil WAGOLLS for this)	i-Pads Blank map of UK Word of the week vocabulary slips Flooding power point Pupil flowcharts Pupil WAGOLL work examples	Floodplain Flooding River Severn River Thames River Trent River Wye River Great Ouse Riverbank Topography Rock morphology Urbanisation Precipitation	Support adults to complete pre-teach with pupils to model how to use atlases/i-pads to locate key rivers in UK.

	Ward of the week fleedulain, pupils to evaluin the meaning of this in books			
	Word of the week: floodplain – pupils to explain the meaning of this in books.			
4 I can use fieldwork skills to observe, measure an record features of the River Mersey	This is a Geography lesson. Geography is the study of places and relationships between people and their environments.  *RIVER VISIT TO RIVER MERSEY* ADDITIONAL ADULTS AND RISK ASSESSMENT NEEDED. Explain to the pupils that the skills we are going to learn today are to use and apply a range of fieldwork skills to collect data from our local River Mersey.  Prior to this lesson read the teacher CPD document on visiting a river for fieldwork (see resources.) Prepare children for the visit by investigating the area of River Mersey to be visited using Ordnance Survey (Digimaps) and google maps. Recap how to identify 4 figure grid references (memory flashpoint) 4 figure grid references - YouTube  Discuss what is expected of the children during the visit by sharing the river visit recording sheet (see resources) On location, direct the children to carry out the investigations described and record their findings. Back in the classroom, share and compare the children's data and record photographs/work undertook in books, especially the data collection. Challenge children to find patterns in their data and interpret it e.g. Our data shows that the river widens as it flows downstream' or 'The water flowed quicker in the rockier upstream areas.'	Clipboards Waterproof Tape measures Metre sticks River sampling worksheets Stopwatches Ordnance survey map of local river (use Digimaps) Float, such as an orange or plastic ball Pens/pencils	Fieldwork River Mersey Sampling Ordnance survey Upstream Downstream Riverbank Riverbed Flow Tributary Erosion sediment data Observe Measure Record Physical/human features	Support adults to support pupils in smaller groups and provide 1:1 fieldwork support when collecting data.
5 I can descrit the process of the wate cycle	This is a Geography lesson. Geography is the study of places and relationships between people and their environments.  Explain to the pupils that the skills we are going to learn today are use secondary sources of information to help us think like a geographer and identify the processes of the water cycle.  Remind the children of the work completed in science during Spr1 (Changes of state).  Word of the week: precipitation – pupils to find out and explain the meaning of this in books.  Share the following video with the pupils to explain the processes of the water cycle: What is the water cycle? – BBC Bitesize  Model a diagram of the water cycle including the four stages of condensation, precipitation, collection and evaporation and add explanations using feedback from pupils during discussion to summarise and describe what happens at each stage.  Complete the water cycling labelling diagram (see resources) as a class to show the order of the four processes and add to working wall as a support aid for children.  Pupils to complete a labelled diagram of the water cycle to show the four processes and write an explanation underneath describing each of the four stages.	Word of the week vocabulary sheets Water cycle labelling diagram	Evaporation Precipitation Condensation Collection Water cycle Rain Sleet Snow Clouds Sea Journey	Support adults to provide pre-teach discussion about the water cycle using visual aids to help explain each stage and how they inter link.