The Rivers

a source of life



RIVER FEATURES

The river is a natural watercourse that flows into another river, a lake or the sea.

Some rivers flow all year long, others flow seasonally. Some are very long, others are short, but all the rivers have common features.

The course of a river is usually divided into three parts:

- The **UPPER COURSE** is the mountain part, close to the source, with steep gradients. Here water flows fast.
- The **MIDDLE COURSE** is the stage where the river flows in the lowland and its tributaries join it. It is wider and deeper. Water flows more slowly. Meanders are the main feature of the middle course.
- The **LOWER COURSE** is the part near the sea. Here the river is much wider, flatter and flows very slowly.

RIVER VOCABULARY

SOURCE - where the river begins. The source can be: a glacier, melting

snow, a lake or a spring

SPRING - a place where water comes out of the ground

WATERFALL - water that falls from a high point

CURRENT - the movement of flowing water

DAM - a barrier across the river to stop the flow of water

RIVERBED the ground at the bottom of a river

RIVERBANK - each side of the river

CHANNEL - the path of a river. It is made up of the riverbed and the banks

STREAM - a small, narrow river

TRIBUTARY - a stream that flows into a river

CONFLUENCE - the point where two rivers meet

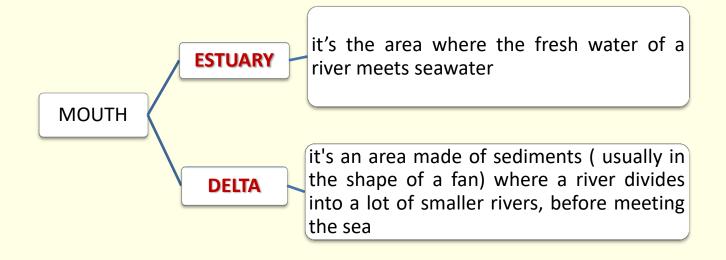
RESERVOIR - An artificial lake created by a dam to store fresh water

MEANDER - a bend in a river

FLOOD - an overflow of water, when the river rises and goes over its banks

FLOODPLAIN – a plain along the course of a river that is often flooded

MOUTH - it's the final part of the river, where it joins the sea. Depending on the shape it can be:



WEBSEARCH



 \Rightarrow 1- For each of the following rivers find out if its mouth is a delta or an estuary

	DELTA	ESTUARY
The ELBE		
The RHONE		
The PO		
The THAMES		
The DNEPR		
The RHINE		
The SEINE		
The VOLGA		
The DANUBE		
The SEVERN		

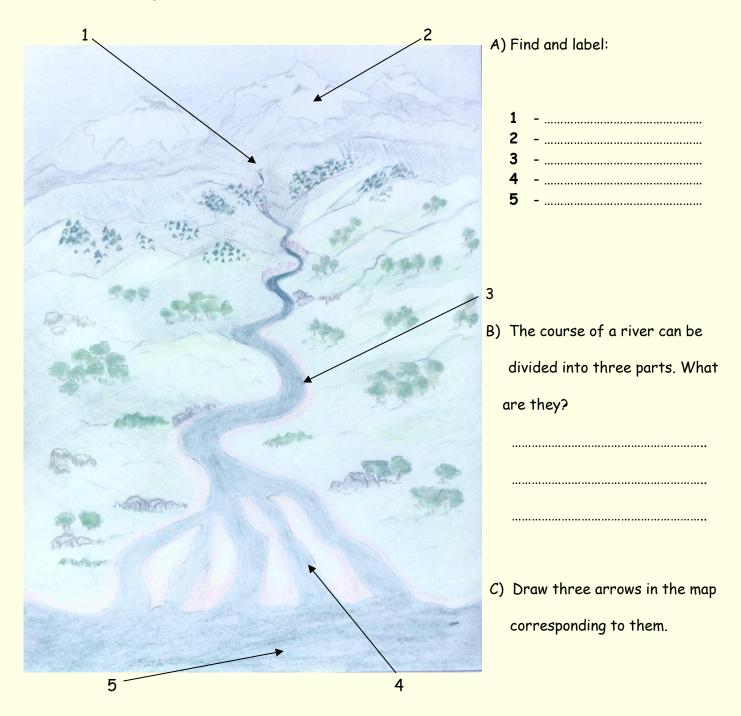


 \longrightarrow 2 Look at the video, play and then complete the following grid https://www.youtube.com/watch?v=t8FrY4tGgnY

River name	Position/ Continent	Length in Km	Curiosities
1			
2			
3			
4			
5			
6			

River vocabulary Activity Sheet 1

This is a river map.



WORD SEARCH

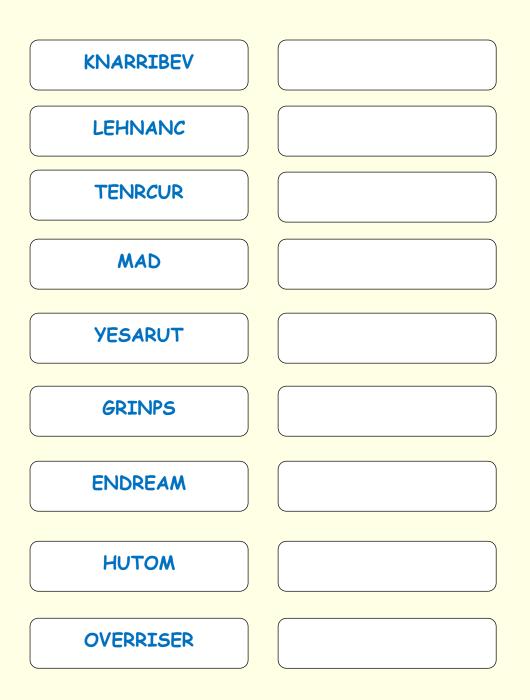
 \square Look for the 15 words listed in the column on the right.

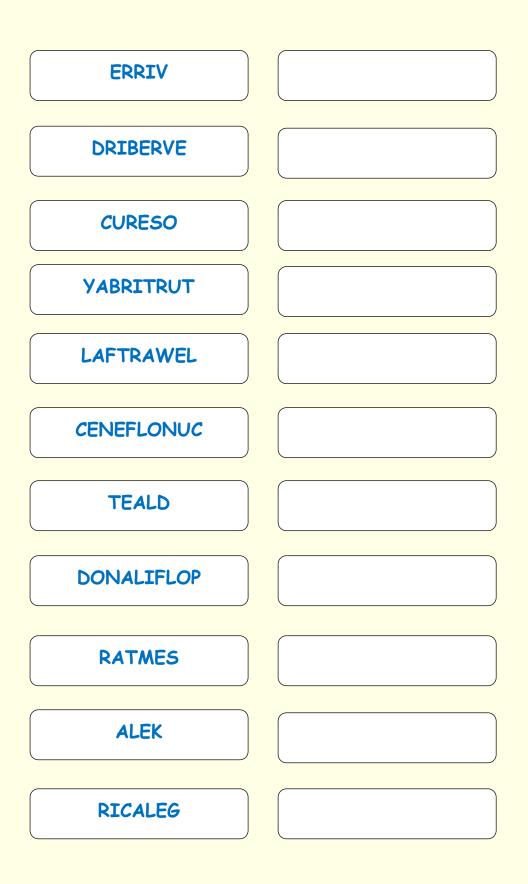
Words are placed forward, backward, diagonally, up and down

Ζ	С	S	W	Q	V	L	L	Α	F	R	Е	Т	Α	W	CURRENT
Ν	Х	U	Н	S	R	G	U	Ν	0	S	Κ	D	R	0	DAM
V	U	Ν	R	В	Е	Α	Н	Т	U	0	Μ	Е	W	R	ESTUARY
U	R	Ι	Ρ	R	S	U	V	Н	Α	Т	V	В	Κ	Q	FLOOD
Е	Е	Μ	Е	G	Е	Ζ	Ρ	G	F	Ι	Е	R	Μ	D	MEANDER
Ν	D	Α	S	Ν	R	Ν	J	Т	R	У	L	Е	L	У	MOUTH
Μ	Ν	D	Т	Ι	V	W	Т	F	R	В	Ζ	V	Q	G	RESERVOIR
В	Α	Т	U	R	0	Ζ	Α	Α	Н	V	W	Ι	0	Μ	RIVER
R	Е	0	Α	Ρ	Ι	Н	Т	Т	F	Т	Q	R	F	L	RIVERBANK
Ρ	Μ	Ι	R	S	R	U	Ρ	R	L	Q	S	У	L	Ρ	RIVERBED
Ρ	U	U	У	J	В	J	Q	Н	Μ	Е	У	Α	0	V	SOURCE
Α	D	F	С	Ι	S	0	U	R	С	Е	D	Т	0	Н	SPRING
Μ	У	С	R	Ι	V	Е	R	В	Α	Ν	Κ	Μ	D	В	STREAM
В	R	Т	Μ	Α	Е	R	Т	S	Κ	S	Μ	Е	Н	Ζ	TRIBUTARY
Ν	Х	Ρ	F	Α	Ζ	F	Ι	Κ	Х	Х	Т	R	S	J	WATERFALL

WORD SCRAMBLE ***

Here are 20 words concerning rivers. Unscramble the letters to form 20 river words





River	vocabulary
TES	Т

Name _____ Class_____

The picture shows the course of a river from the hills to the sea.

What are the features marked at A, B, C, D, E, F, G, H and I? Choose the correct labels from those listed below and write the letter in the boxes.

	A	The state	
		ST FL	
		Star Sta	
\sim		B	
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F	Ser 13	1000	ALL STORE APPENDING
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		_	
mouth	lake	waterfall	delta
meander	tributary	flood plain	sea source
		flood plain	
Use the picture t	o help you fill in the	gaps in these sentenc	
Use the picture t	o help you fill in the e a river starts is ca	gaps in these sentenc	
Use the picture t 1-The place where	o help you fill in the e a river starts is ca	gaps in these sentenc	es:
Use the picture t 1-The place where 2-A larger one. 3- A large bend in	o help you fill in the e a river starts is ca n a river is called a _	gaps in these sentend lled its is a smaller river or s	es: tream which flows into a
Use the picture t 1-The place where 2-A larger one. 3- A large bend in 4- A	o help you fill in the e a river starts is ca n a river is called a _	gaps in these sentend lled its is a smaller river or s is an area of land ro	es: tream which flows into a
Use the picture t 1-The place where 2-A larger one. 3- A large bend in 4- A which forms wher	o help you fill in the e a river starts is ca n a river is called a re a river enters the	gaps in these sentend lled its is a smaller river or s is an area of land ro e sea.	es: tream which flows into a oughly triangular in shape
Use the picture t 1-The place where 2-A larger one. 3- A large bend ir 4- A which forms wher 5- A	o help you fill in the e a river starts is ca n a river is called a re a river enters the	gaps in these sentend lled its is a smaller river or s is an area of land ro sea. is water dropping	es: tream which flows into a pughly triangular in shape from a higher point
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Use the picture t 1-The place where 2-A larger one. 3- A large bend in 4- A which forms wher 5- A 6- A sediment deposit 7- An artificial la	o help you fill in the e a river starts is ca n a river is called a re a river enters the ted during floods. ke used to collect an	gaps in these sentend lled its is a smaller river or s is an area of land ro sea. is water dropping is a flat area	es: tream which flows into a oughly triangular in shape from a higher point a near a river composed of

RIVER USES

TRANSPORTATION

In forested regions rivers are used to float and transport logs, saving effort and costs.

NAVIGATION

A lot of rivers are navigable and provide routes for trade, goods and people transport.

IRRIGATION

It is the method of supplying water to plants artificially. There are a lot of different ways to get water from a river.

The oldest system is represented by **irrigation canals** built in Mesopotamia about 4,000 years ago and still widely used in many parts of the world.

Another very old system, used in arid regions in the past but still in force today, is represented by **spate irrigation**.

It is based on the exploitation of seasonal river floods and a network of canals to convey water from the river to the fields.

From canals water can be better employed to irrigate crops when farmers dig small ditches between rows of crops. This system is called **furrow irrigation**. So doing water is better distributed in the fields.

To deliver water from the river to fields farmers often use **pumps**.

A SOURCE OF FOOD

In the past, but still nowadays rivers provide an important source of nutrition. Along them people hunt wild birds such as ducks or, by means of nets, they catch fish and they collect shellfish.

So doing, they ensure food for themselves and their families.

Rivers are also a source of **income** for people who establish fish farms and fisheries along them.

In some areas of the world rivers provide people with water to DRINK, to HAVE A BATH, to WASH VEGETABLES and TO DO THE WASHING.

A SOURCE OF HYDROPOWER

Rushing water is used to produce energy.

In the past people built watermills. They used the force of the water's movement to power other machinery.

At the end of the 19th century scientists understood how to use hydropower to generate electricity and in 1882 the first hydroelectric plant was built in the USA.

In **Italy** the first was set up in 1885 and until the 1950_s almost all the electric energy produced came from water. Today we are the world's 14th largest producer of hydroelectric power.

FOR RELIGIOUS BELIEFS

In some parts of the world some rivers are considered sacred.

For example, the Ganges is the holy river to Hindus. They believe that bathing in its water purifies the soul and washes away sins. The ashes of the dead are dissolved in it because Hindus associate the river with the goddess Ganga.

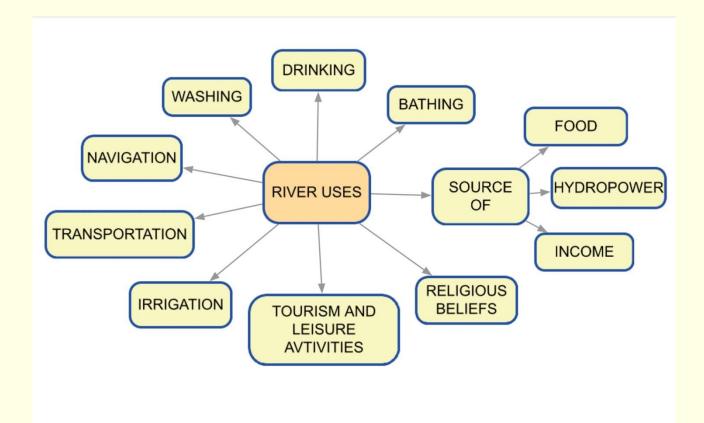
Rituals in its water amplify Ganga's kindness.

TOURISM and LEISURE ACTIVITIES

River tourism offers people a lot of relaxing or sports activities, the chance of sightseeing and doing new experiences such as a holiday on a houseboat.

People can also boat, have excursions or river cruises, have picnics, hire a barge, walk, fishing, birdwatching or cycling along the river, do water sports such as rafting, canoeing, sailing, or kayaking, have a swim or go ice skating in winter in very cold regions.

River uses: mind map



Glossary

float	galleggiare	provide	fornire
trade	commercio	goods	merci
supply	fornire	spate	ondata
exploitation	sfruttamento	convey	trasportare
ditch	fosso	furrow	solco
hunt	cacciare	ensure	assicurare
income	reddito	belief	credenza
soul	anima	sin	peccato
ash	cenere	hire	noleggiare
barge	chiatta	leisure	tempo libero

Complete the sentences using words from the box

Transportation navigable irrigation source of income source of hydropower religious beliefs sport activities tourism bathing source of food drinking washing

1- When its water is used to produce electricity the river is a ______

- 2- A river is ______ when it is sailed on by boats, ferries or ships.
- 3- In poor villages situated along a river, its water is used for______, for ______ and for ______.

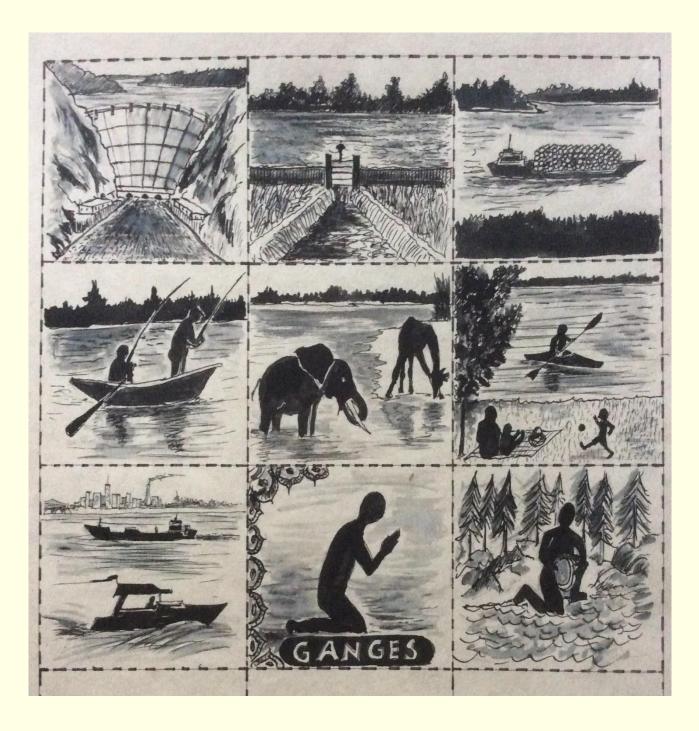
4- When fisheries are set along a river it is used as a _____

- 5- For _____ Hindus dive into the Ganges to purify their soul.
- 6- If people camp by a river or take a cruise on it, it is a source of .
- 7- When people make tree trunks float down a river, it is used for_____.
- 8- Canoeing, rafting and kayaking are river
- 9- _____ means when the river is used to supply land and plants with water using pumps, ditches or canals.
- 10-When fisheries are set up along a river, it is considered as a

RIVER PUZZLE

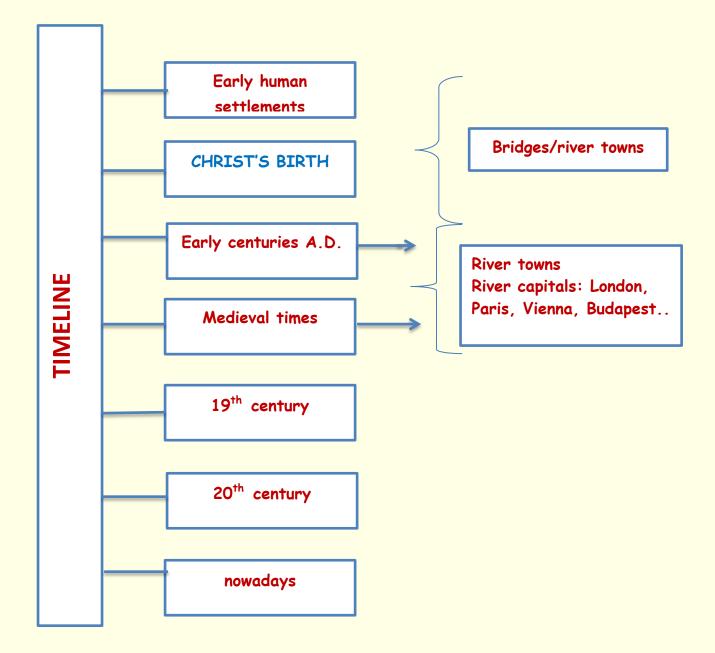


pick up a card and describe it.



IMPORTANCE OF RIVERS

Class discussion. Look at the timeline and think of the river uses. For the periods quoted say why the river was or is important.



THE TIGINOS OUR GOLDEN RIVER

The Ticino rises in Val Bedretto in Switzerland.

It's about km 284 long. It's the affluent and the outflowing stream of Lake Maggiore.

It's a tributary of the Po which it joins at «Ponte della Becca», a bridge located south of Pavia.

Along its upper course in Switzerland and its middle course in Italy, there are a lot of hydroelectric plants for the production of electricity. The Italian ones are:

- -
- -
- -

For irrigation people have built a lot of artificial canals. The most important are:

- Canale Regina Elena
- Canale Villoresi
- Canale Industriale
- Naviglio Grande
- Naviglio Sforzesco
- Naviglio Langosco

Build up a 3D River Basin

Produce a 3-dimensional river basin

Include:

✓ The different parts of a river from the source to the mouth e.g, tributary, confluence, waterfall...

(Think about the features of the upper, middle and lower parts of your river)

- ✓ Label your model using the correct geographical terminology
- ✓ Show how humans use the river
- ✓ Make sure your model is not too large so you can transport it to school.
 Preferably no bigger than A3.

STEP 2

- ✓ Describe your model
- ✓ Compare it with models from other groups
- \checkmark Score them

STEP 3 FLIPPED CLASS

✓ Explain your model to class 1C