



BYJU'STM
The Learning App

Class-4

WATER



QUESTIONS



Where are all the words?

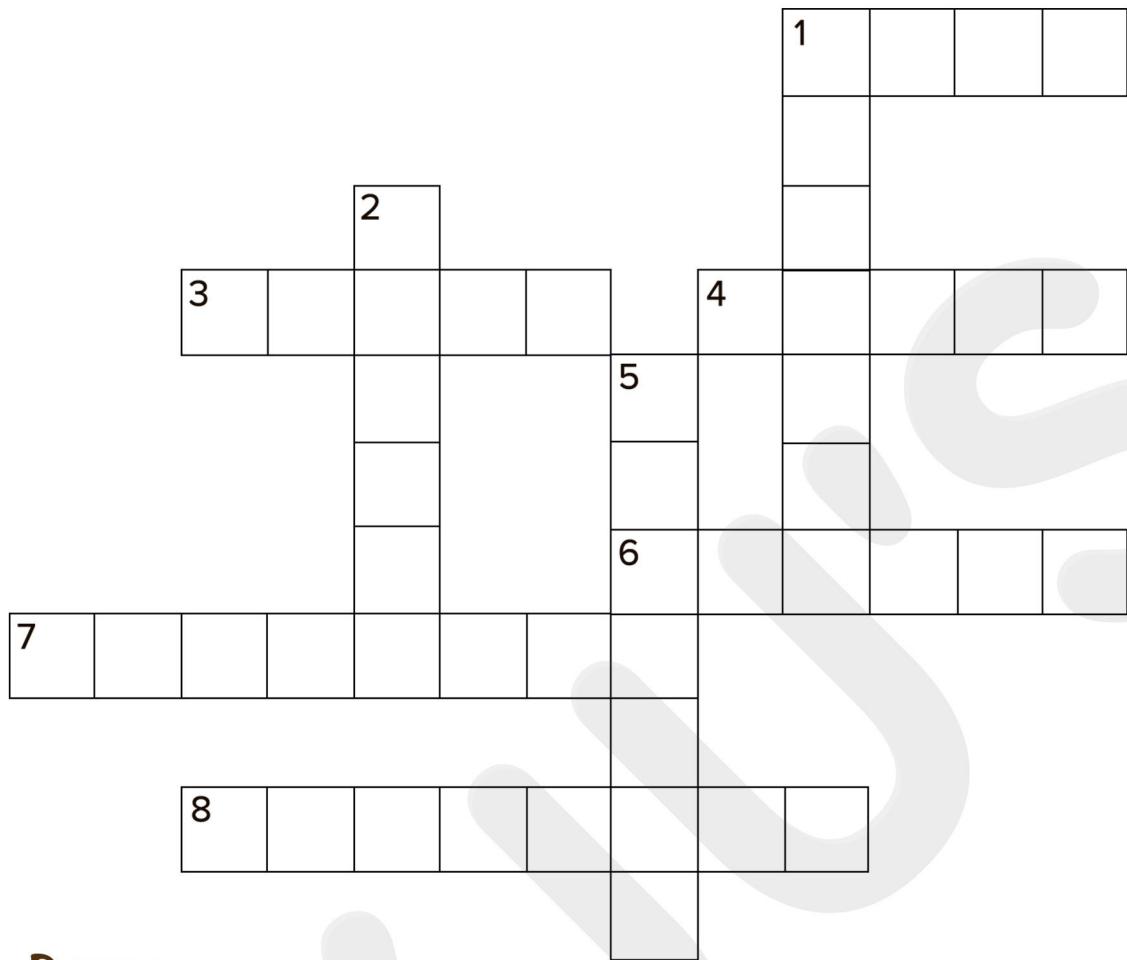
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w	l	a	a	t	e	o	r	f	n	h	a	p	p	y
b	p	o	p	k	o	i	o	i	o	t	w	o	r	g
l	i	k	p	e	w	x	d	a	v	b	m	g	e	r
m	y	u	p	h	d	v	r	w	r	t	y	u	j	c
a	w	a	t	e	r	e	i	h	o	c	e	a	n	o
n	t	h	n	k	o	p	v	m	c	a	x	z	c	o
x	s	l	l	j	w	t	e	t	n	b	s	s	h	l
z	c	t	e	e	i	u	r	b	c	w	p	n	m	v
v	a	a	d	b	c	c	s	f	f	n	t	o	k	k
r	j	p	d	r	e	f	w	b	a	t	h	w	p	z
a	c	t	p	o	i	h	v	a	s	d	v	m	m	i
i	b	n	x	t	c	n	o	u	d	a	z	t	w	w
n	d	r	i	p	t	k	k	j	a	d	g	r	o	w

Find and mark the underlined words in the above grid.

- ★ Water keeps our body cool and hydrated.
- ★ During summer it is advised that you drink a lot of water.
- ★ Water helps a plant to grow.
- ★ Evaporated water from the oceans often come down as rain and sometimes as snow.
- ★ River is one of the major sources of drinking water.
- ★ A lot of water is wasted from a dripping tap.



Water Water Everywhere



Down:

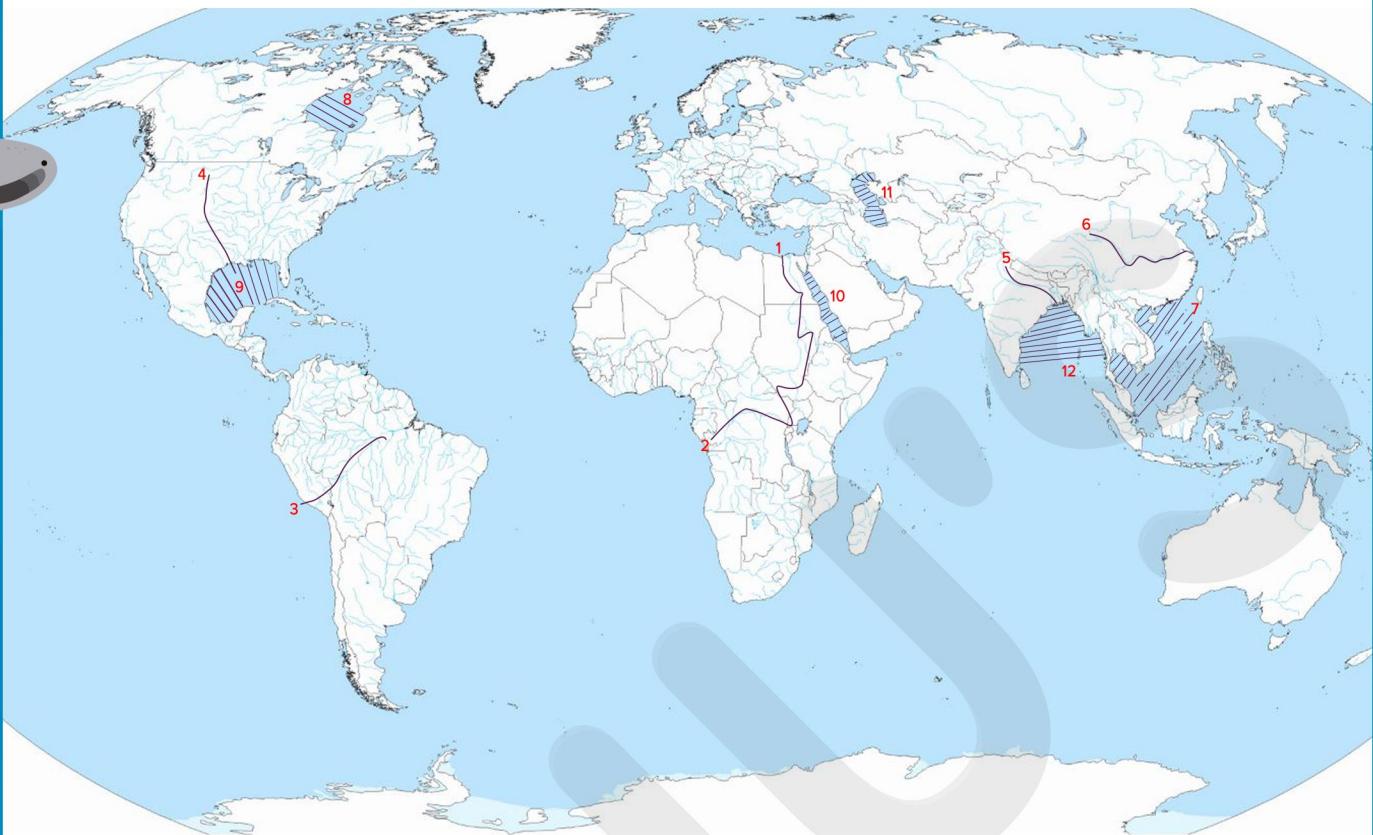
1. Largest ocean on Earth
2. This ocean is the closest to the Indian subcontinent
5. Extremely large mass of ice which moves very slowly, often down a mountain valley.

Across:

1. A small body of still water formed naturally or by artificial means
3. Major river flowing in North India
4. A large natural stream of water flowing in a channel to the sea.
6. Smallest ocean, situated near the poles
7. Ocean between Europe and North America
8. This ocean surrounds a cold continent



Major rivers and seas of the world



Use the hints to find the major rivers and seas

1. The _____ is a river located in Africa, and is usually considered the longest river in the world.
2. _____ is the second largest river in Africa and is also known as Zaire.
3. Located in South America, the_____ river system is the second longest river in the world, and has the largest drainage basin of any river.
4. The _____ river is one of the world's most important commercial water ways and one of North America's great migration routes for both birds and fishes.



Major rivers and seas of the world

5. The point of origin of river _____ is Gangotri Glacier in Himalayas' southern slope and it runs through India and Bangladesh, covering a total distance of 2520 kilometres
6. _____ river is the longest river in Asia, and the third longest river in the world. It is also the longest river to flow in only one country - China.
7. _____ _____ is surrounded by the IndoChina and Malay peninsula in the west and encompassing an area of around 3,500,000 square kilometres.
8. _____ _____ is a large body of saltwater in northeastern Canada and is named after an English explorer named Sir Henry Hudson.
9. The _____ _____ borders five of the 50 United States (Alabama, Florida, Louisiana, Mississippi, and Texas).
10. _____ is an inlet of the Indian Ocean located between Africa and Asia.
11. Despite its name the _____ is actually the largest lake in the world.
12. The Ganges flows into the _____ _____

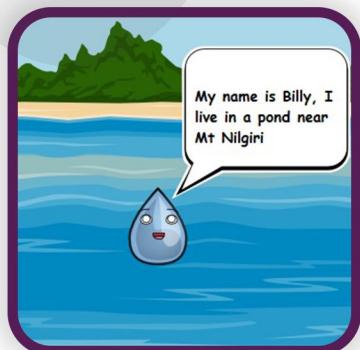


The Cycle of water

Use the provided words to complete the story of Billy, The Water Droplet. We have written one for you but it would be wonderful if you could think of one too. You can even send it to us at creativeminds@byjus.com with the subject line - "**The Cycle of Water**" and your story might even be featured on our website!

**Atmosphere, Ground water, Condensation
Clouds, Precipitation, Oceans, Rain, Sunlight,
Evaporates**

Once upon a time there was a tiny water droplet called Billy, who lived in a pond near Mt. Nilgiri. One day a frog took a splash in the pond, and suddenly young Billy found himself on the tip of a leaf.



He started wondering how his day will continue but soon when it was noon he felt as though he was flying in the air along with millions of other water droplets. When he asked his fellow droplets, they told him that their journey is a part of the water cycle. He learnt from them that the **water cycle** is the continuous movement of water from the earth's surface to the



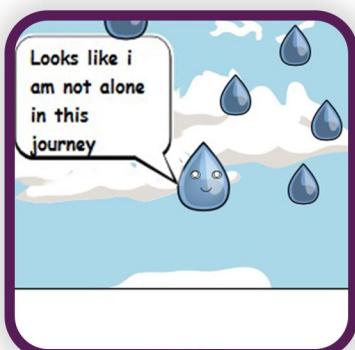
The Cycle of water

[1] _____ and then back to the ground. He also came to know that it is a continuous process and that it does not have a start or an end point.

Billy was really excited to go on this journey but was curious about how they were floating in the air.

His friends explained that the sun's energy heats the water bodies which increases the temperature of the water present in them.

As a result, some of the water [2] _____ as vapour into the air.



As Billy and his friends rose high, the cool weather reduced their temperature and turned them back into liquid. Billy was happy to gain his old form back due to the process called [3]_____.

Wind and air currents moved them around, leading to the formation of [4]_____.

After some days wind movements caused the clouds particles to collide. As they become water laden, they formed rain bearing clouds and fell onto the earth's surface. Billy and his friends are now ready to go back home. This is due to the process known as [5]_____.

Billy is happy to get back home and is excited for his next journey to the clouds. [The rainwater either runs off into oceans, rivers and ground surface or is absorbed into the soil. After the last stage, water is again ready to be evaporated.]



Every drop matters

Identify the following activities and categorize them into water pollution, water wastage and water conservation.

Rules for completing the following activity :

1. Identify the activity in the picture and describe it in the space provided.
2. Based on the activity, tick the correct category.
One has already been done for you.

	Activity	Description	Water Pollution	Water Wastage	Water Conservation
1.		Oil spillage in the ocean/sea	<input checked="" type="checkbox"/>		
2.		_____			
3.		_____			



Every drop matters



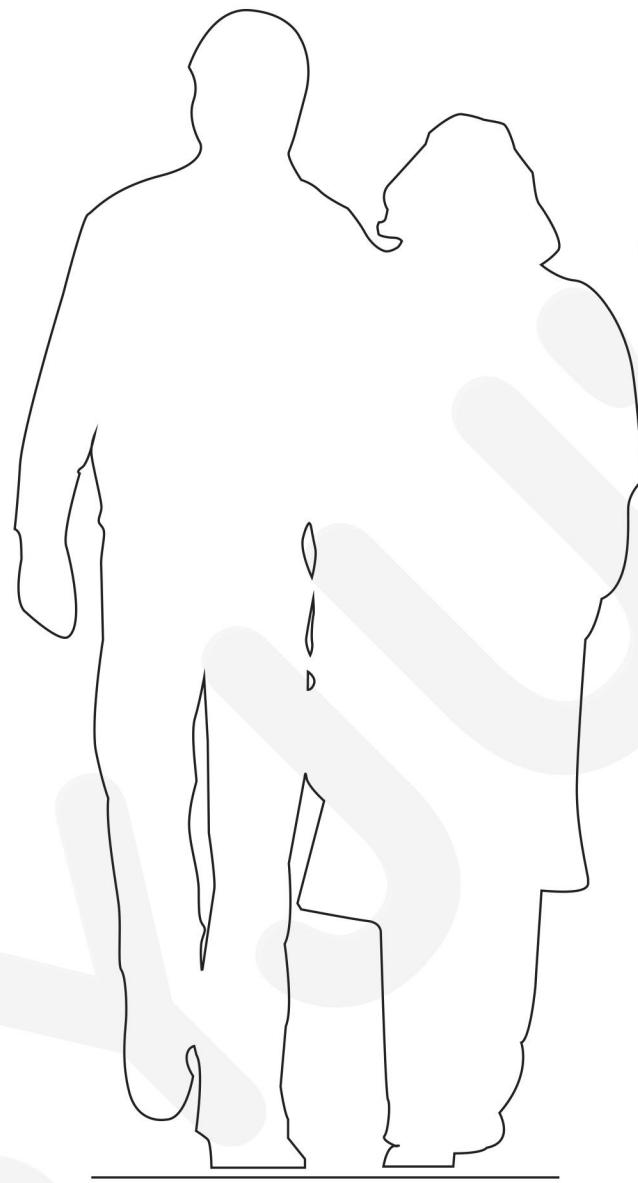
	Activity	Description	Water Pollution	Water Wastage	Water Conservation
4.		_____	_____	_____	_____
5.		_____	_____	_____	_____
6.		_____	_____	_____	_____



Water content in our bodies

A large amount of our body is made up of water.

Colour each of these human bodies to show how much you think is water.



Did you know?

Water acts as a natural purifier and removes toxins from our system that we inhale through pollution and food. Drinking water helps to flush the system of these harmful pollutants and adds a little extra boost to your digestion.

Can you think of some reasons why your body needs so much water?



Water: The Superhero we need

Your body uses water in many ways. Water cushions and lubricates joints; nourishes and protects the brain, spinal cord and other tissues; keeps the body's temperature normal; and helps remove waste through perspiration, bowel movements and urination. Humans are composed mostly of water, which is not surprising when you consider that humans descended from single-cell organisms that originated in the oceans millions of years ago.

Groundwater is one of our most important sources of water for irrigation. Unfortunately, groundwater is susceptible to pollutants. Groundwater contamination occurs when man-made products such as gasoline, oil, road salts and chemicals get into the groundwater and cause it to become unsafe and unfit for human use.

Let us find out more about this superhero. Use the words below to fill in the blanks.

steam	tap	water	lakes	vapour	sea
liquid	ice	solid	rivers	freezes	gas

He is normally l_____. You will find him in r_____, l_____, and s_____. You can easily let him in your home by simply opening up a t___.

When he f_____ he looks like this

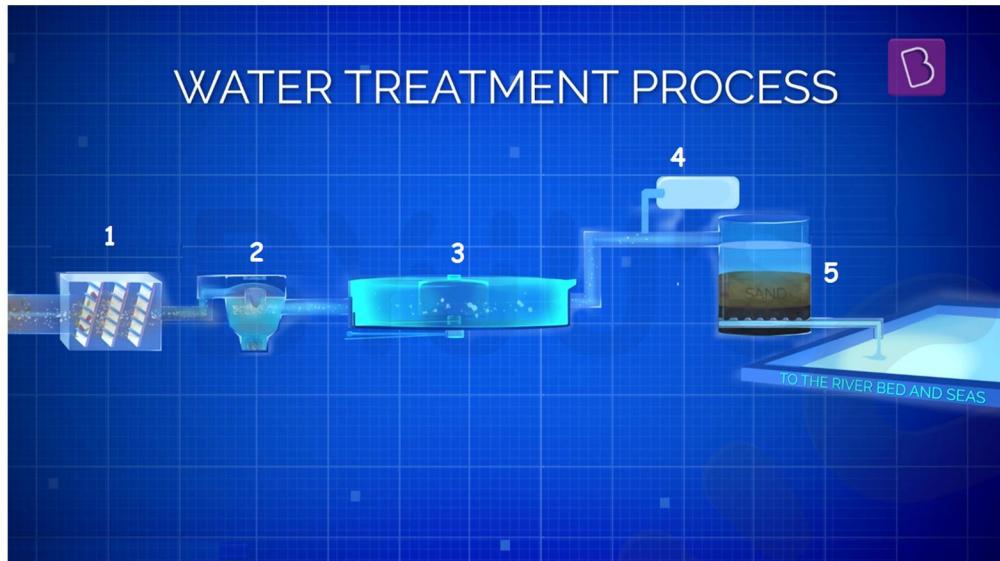


Now he is s___ and we call him i___.

He can even become g_____. Then he is s____ or w____ v____.



Sewage water treatment plant



Questions:

1. _____ is the process by which we pass the sewage through a screen (a physical partition or barrier) and filter the bigger waste particles.
2. _____ is a chamber that adjusts the speed at which the sewage flows so that heavier particles such as stone settles down first and can be separated from the sewage.
3. _____ is a large tank which incorporates the process of allowing suspended particles in water to settle down under the effect of gravity.
4. _____ is the process of passing chlorine gas through dirty water in order to kill off germs.
5. _____ is a tank in which water is filtered through sand and then passed to rivers and streams. that heads off to a sea.

Learning Objective: To label the important processes involved during water purification in a sewage treatment plant.

ANSWERS



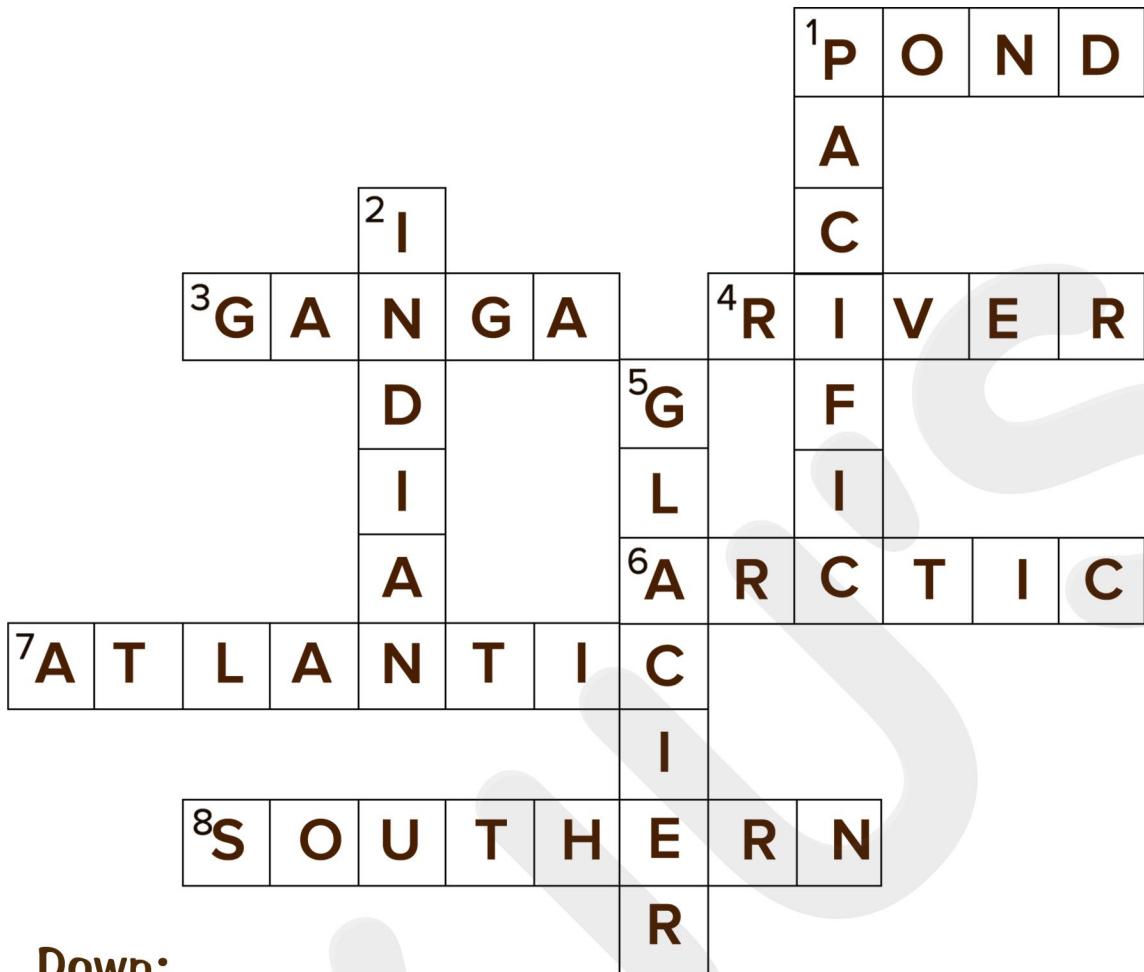
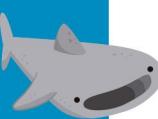
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l	i	k	p	e	w	x	d	a	v	b	m	g	e	r
m	y	u	p	h	d	v	r	w	r	t	y	u	j	c
a	w	a	t	e	r	e	i	h	o	c	e	a	n	o
n	t	h	n	k	o	p	v	m	c	a	x	z	c	o
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z	c	t	e	e	i	u	r	b	c	w	p	n	m	v
v	a	a	d	b	c	c	s	f	f	n	t	o	k	k
r	j	p	d	r	e	f	w	b	a	t	h	w	p	z
a	c	t	p	o	i	h	v	a	s	d	v	m	m	i
i	b	n	x	t	c	n	o	u	d	a	z	t	w	w
n	d	r	i	p	t	k	k	j	a	d	g	r	o	w

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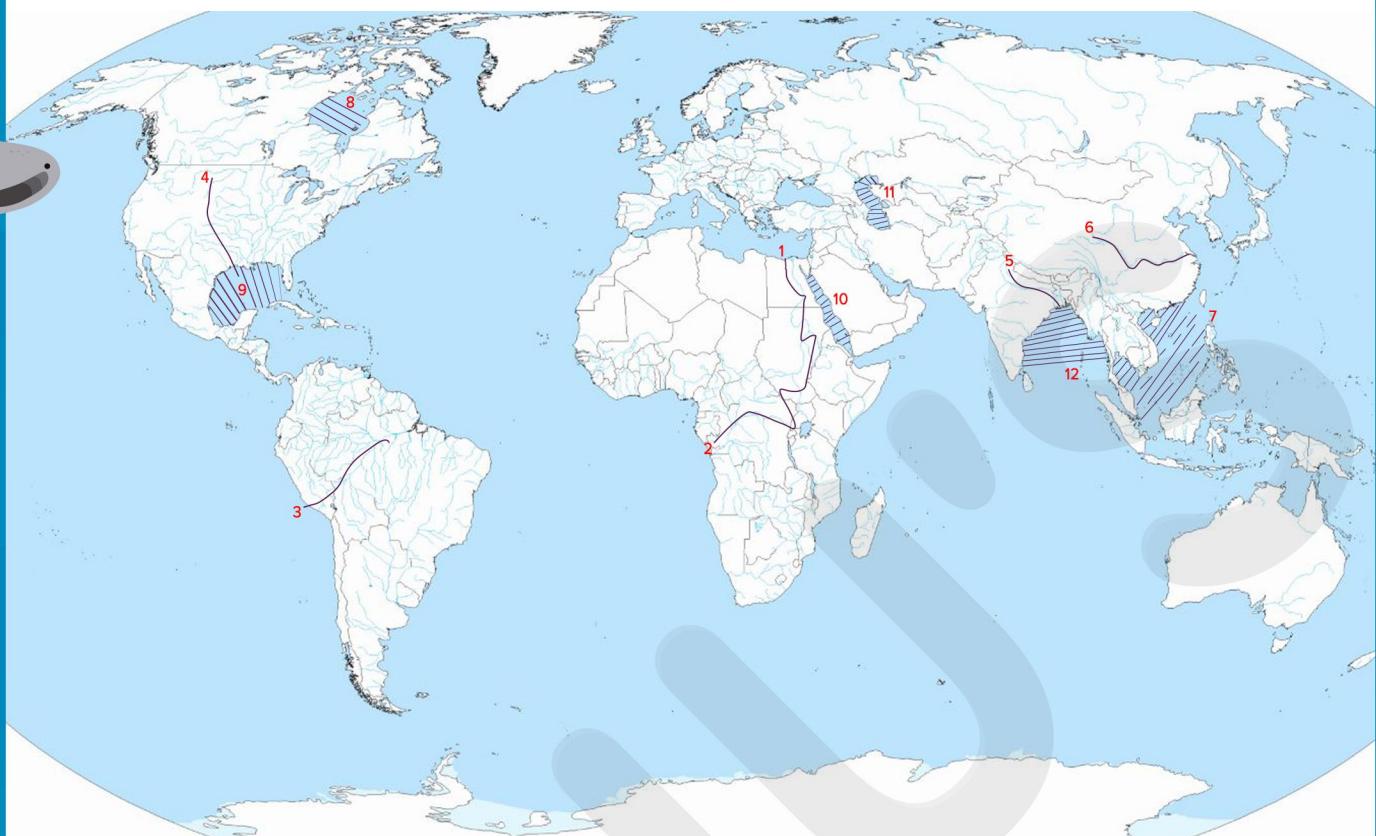
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Major rivers and seas of the world



1. Nile
2. Congo
3. Amazon
4. Mississippi
5. Ganga
6. Yangtze
7. South China Sea
8. Hudson Bay
9. Gulf of Mexico
10. Red Sea
11. Caspian Sea
12. Bay of Bengal



The Cycle of water

1. Atmosphere
2. Evaporates
3. Condensation
4. Clouds
5. Precipitation

BYJU'S

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1.		Oil spillage in the ocean/sea	<input checked="" type="checkbox"/>		
2.		Spilling garbage in the river	<input checked="" type="checkbox"/>		
3.		Washing car using a bucket of water			<input checked="" type="checkbox"/>



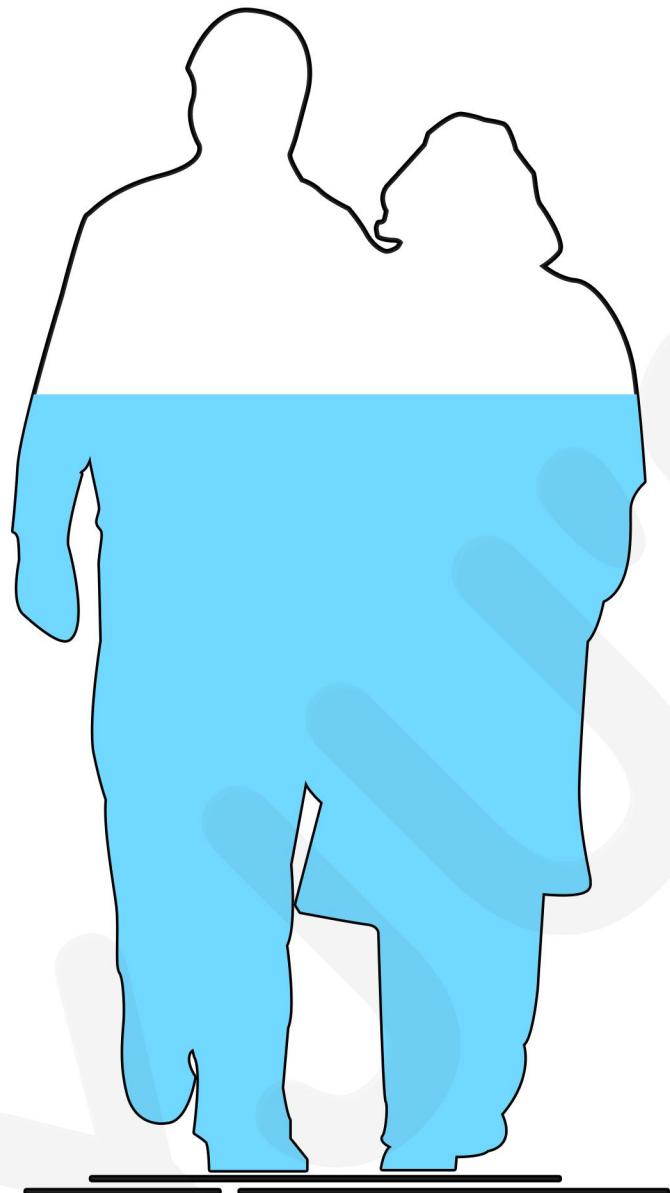
Every drop matters



	Activity	Description	Water Pollution	Water Wastage	Water Conservation
4.		Washing clothes in the river	✓		
5.		Brushing teeth with the tap open		✓	
6.		Fixing the leaking taps and faucets			✓



Water content in our bodies



Uses of water in our body

- Water helps your body remove waste
- Water aids in digestion
- Water protects your tissues, spinal cord, and joints
- Water prevents you from becoming dehydrated



Water: The Superhero we need

He is normally **liquid**. You will find him in **rivers, lakes, and seas**.

You can easily let him in your home by simply opening up a **tap**.

When he **freezes** he looks like this

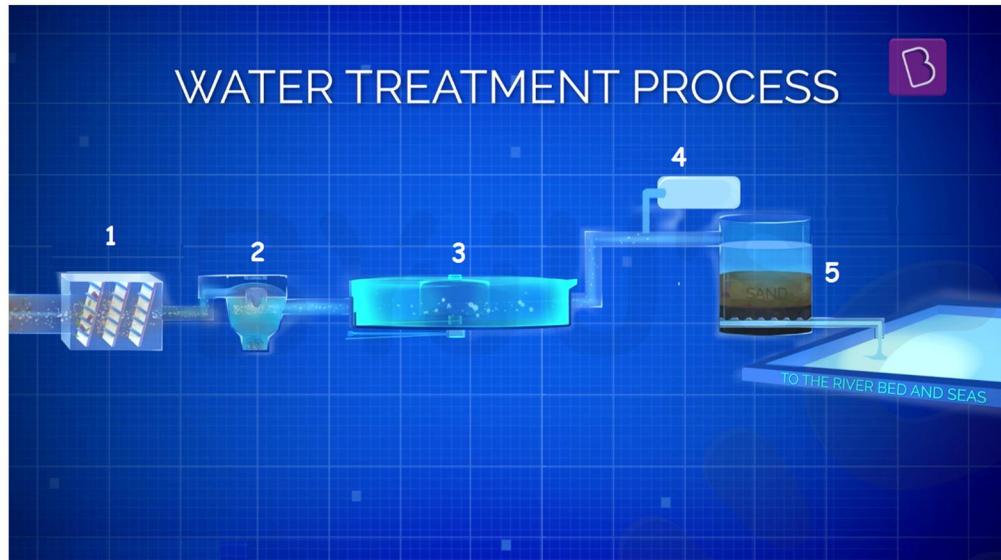


Now he is **solid** and we call him **ice**.

He can even become **gas**. Then he is **steam** or **water vapour**.



Sewage water treatment plant



Answers:

1. Screening is the process by which we pass the sewage through a screen (a physical partition or barrier) and filter the bigger waste particles.
2. Grit Chamber is a chamber that adjusts the speed at which the sewage flows so that heavier particles such as stone settles down first and can be separated from the sewage.
3. Sedimentation tank is a large tank which incorporates the process of allowing suspended particles in water to settle down under the effect of gravity.
4. Chlorination is the process of passing chlorine gas through dirty water in order to kill off germs.
5. Filtration tank is a tank in which water is filtered through sand and then passed to rivers and streams. that heads off to a sea.

