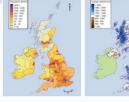
Geography Summer 2 Week 4

Water

Keep referring to your knowledge organiser - see web page

We'd like you to complete the tasks outlined in this week's pack.









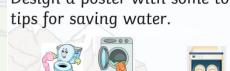
Activity 2

Use the maps to investigate where most of the rain in the UK falls - is it high ground or lowland? What kind of place is Nottingham.

Water conservation

Activity 3 What can we do?

Design a poster with some top tips for saving water.



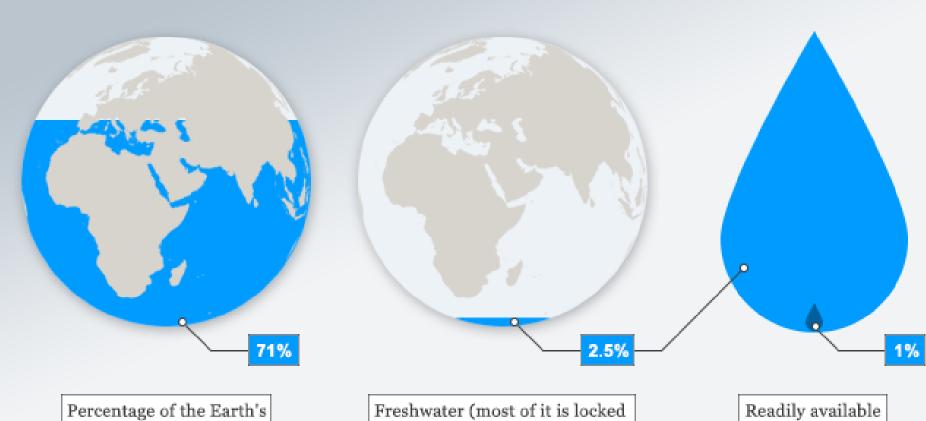


Activity 1

Use the 3 maps on the worksheet to help you investigate water supply and demand in the UK.

Who owns the water?

Freshwater makes up a very small fraction of the Earth's water



surface covered in water

up in ice and in the ground)

freshwater

Source: USGS

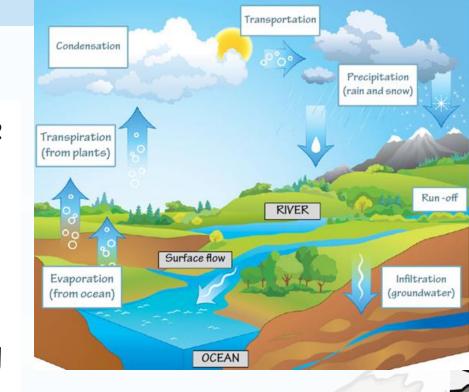
The water-cycle

Water moves one from place to another.

So who owns it?

The water in your tap today might be in my garden next year?

They say that a glass of water in London is on its eighth time around!

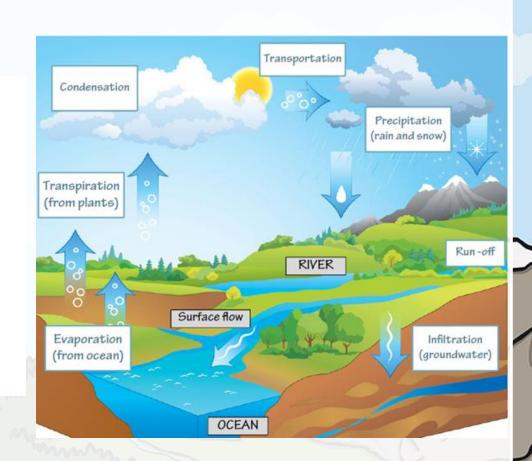


The water-cycle

Water is free surely.

It falls from the sky so nobody owns it!

What do you think?





Your Account Number 5100221783 Bill date 20 July 2015

Set a question? Need Information? On online at www.stwater.co.uk

easier please visit:

08457 500 500 6am - Spen Mon Fri Sem-Tight Self

We have changed the bill layout in

response to customer feedback, the bill

contains the same information but it is

to make managing your account/bill

http://mysocount.stwater.co.uk

easier to understand. To find other ways



ել Սիվուիլ ՈւգՄի հինոց ՍիՄլիլ հի

MITCHEST OF STREET, NO. 10 P. LEWIS CO., LANSING, MICH.

32 HOME ORCHARD

MR JOHN CITIZEN

EBLEY

STROUD

GLS 4TT

Your account is £24.67 in credit

This bill contains charges for the water supply, used water and surface water drainage sevices to 32 Home Orchard, Ebley, Stroud, GL5 4TT

This bill is for information only.

We will collect payments in accordance with your payment plan by Direct Debit from:

Account No. **** 3002 Sort Code. ** ** 02

See page 3 for full details of charge



Bogus Callers make excuses to try and trick their way into your home and say they work for Severn Trent or the Waterboard.

Be safe and check their identity call the Bogus caller hoting 0845 604 1655.



The Direct Debit Guarantee

This Guarantee is offered by all banks and building societies that accept instructions to pay Direct Debte.

- If there are any images to the amount, date or frequency of your Climat Data! Devem-Times Witter and notify you's hooking days in advance of your assemble territy should be not relevant agreed. If you reposed Davisor from Witter to under a laptopied, continuation of the servour and calls will be given to you at the time of the request.
- If on-error is made in the payment of your Direct Datit by Severn Trest Water or you hark or building society you are artified to a full and emodule extend of the amount paid from your bone or housing seconds.

If you receive a rehard you are not estitled to, you must pay it had when Seven Treet Water adds you to

 You can comod a Drest Debt at one time by simply contacting your turn or subbing society. Minter confirmation may be stiggifted. Please take natify at.



This is a water bill!

We pay for the water that comes in and we pay for the water that goes out - including the rain!

Ask at home to see what a water bill looks like.

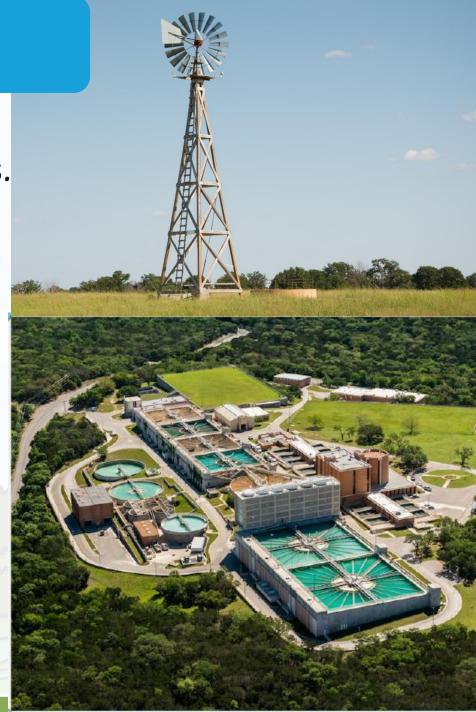
Why do we pay?

We pump the water from the ground, rivers and lakes.

It is sent to a water treatment plant.

Here the quality of the water is improved, to make it suitable for drinking.

Then it is pumped to houses, schools and other places.



Why do we pay?

Waste water and water treatment is a complicated process involving several steps.

Bringing clean water to and treating waste water from our homes, schools, shops, places of work is very expensive.



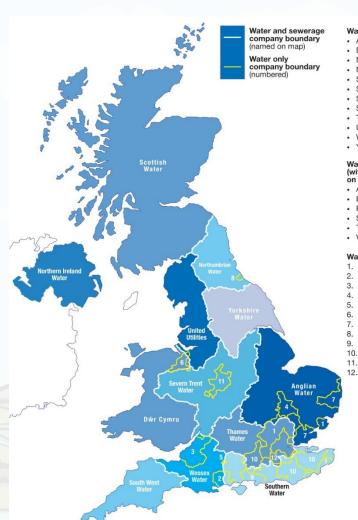
Who do we pay?

Water UK ensures the provision and supply of water across the UK.

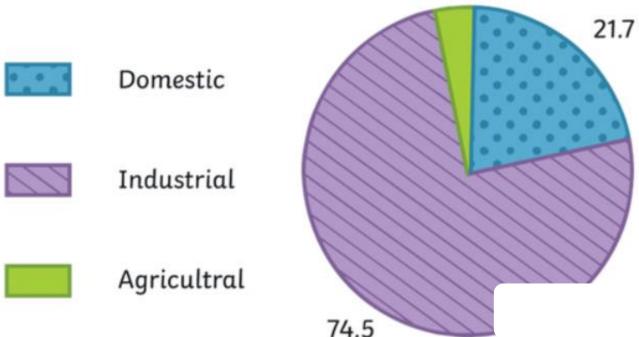
It has regional companies.

Do you know what our company is called?

Some of these companies are also responsible for the safe collection, treatment and removal of sewage.



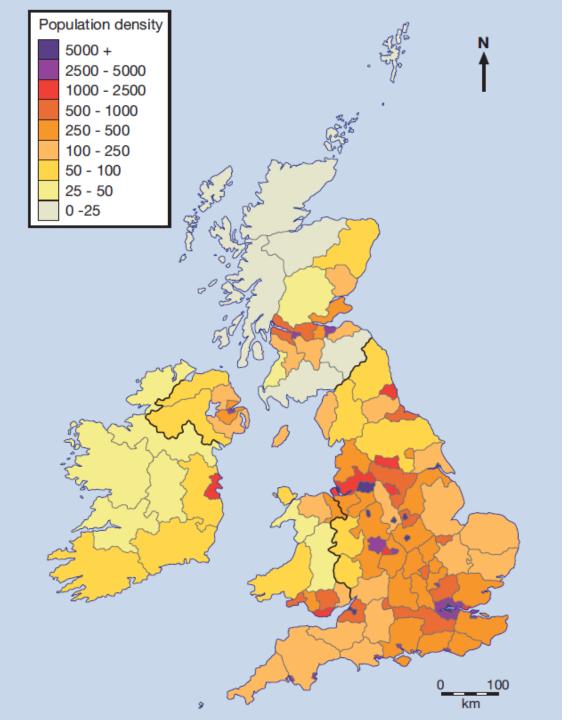




2.9

Where do you think the biggest demand is for water? In a city or in the country? Why?

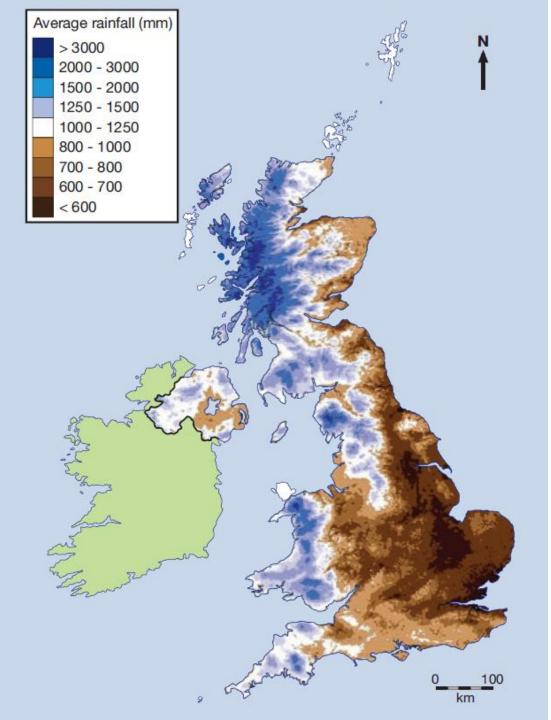
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This chart shows where people live.
The purple colour means more people.

What areas would be purple?

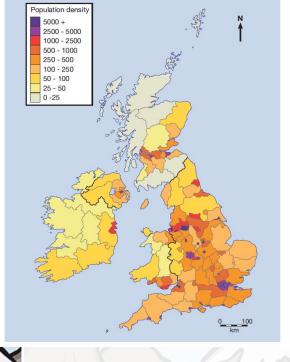
The light grey and yellow areas mean less people.

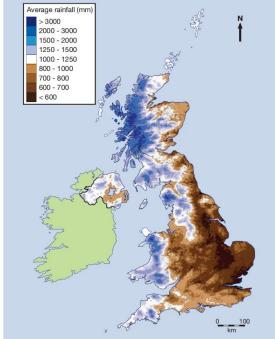


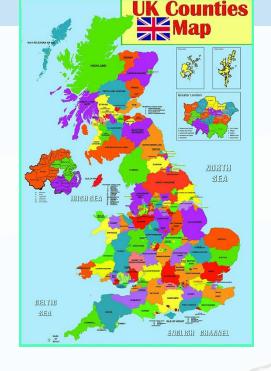
This chart shows the average rainfall across the UK. The blue areas shows where the greatest rainfall is.

Where does most of the rain fall?

Where is most of the rain needed?



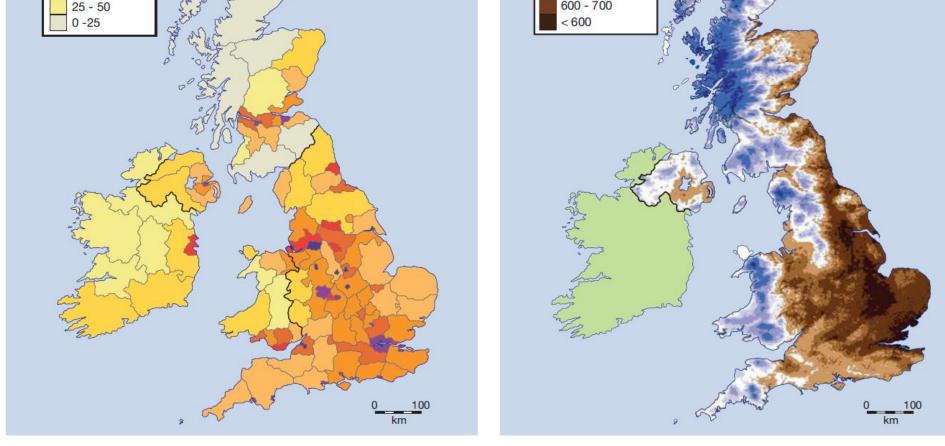




Activity 1

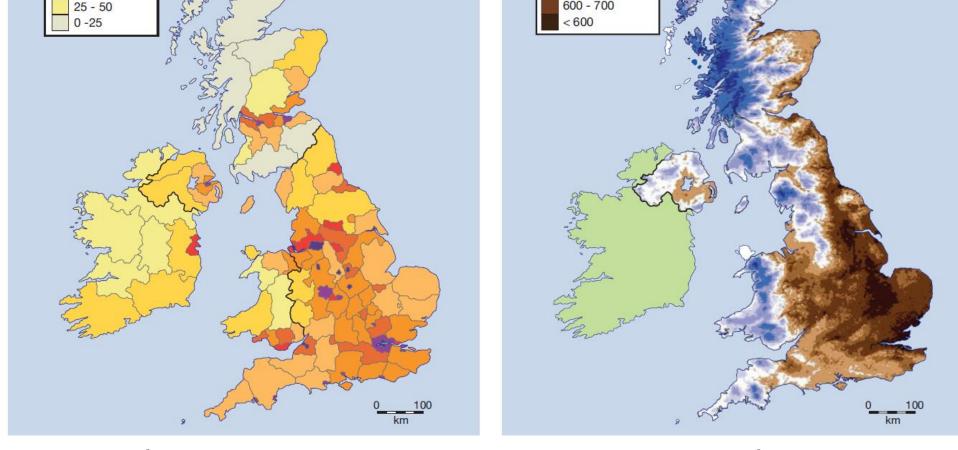
Use the 3 maps on the worksheet to help you investigate water supply and demand in the UK.

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Use your counties map to find Nottingham. What kind of rainfall do we get? Do we have a large population?

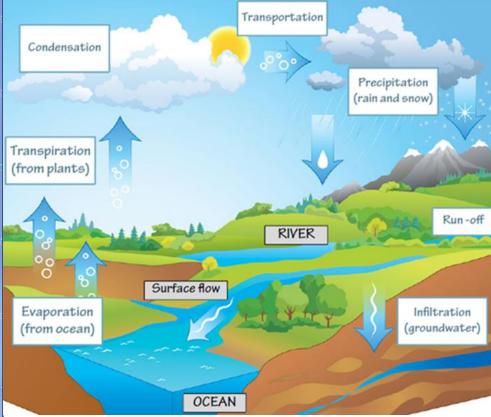
When there is a high population but low rainfall we call is water stress.



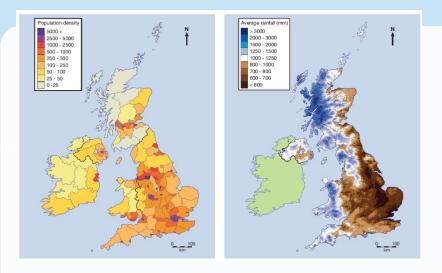
Areas that experience **water stress** need to get their water from areas where water is plentiful.

I wonder if the areas where it rains a lot have other geographical features in common.





How are the water-cycle and mountains linked? Green areas are low-lying and brown areas are high ground.





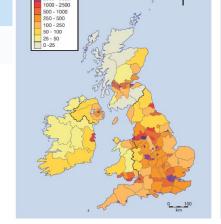
Activity 2

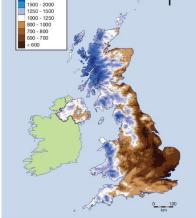
Use the maps to investigate where most of the rain in the UK falls – is it high or low? What kind of place is Nottingham.

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Water stress

Nottingham is low lying and has low rainfall. We need more water than we get from rain.





Where does it come from? How do the water companies manage water stress?

- As much water as possible is pumped out of aquifiers from underground but they are not replenished quickly enough
- More reservoirs are being built in the north and west of the country
- This extra water will then be transferred to the areas with water stress
- Encourage water conservation strategies

Water conservation

Activity 3 What can we do?

Design a poster with some top tips for saving water. Use the prompt sheet and/or sorting cards to help





Did you know...

That each person in the UK on average use 150 litres of water a day! A figure that has been growing every year by 1% since 1930.

Most people in the UK consume a lot more than 150 litres, as water is in most of the foods that we eat.



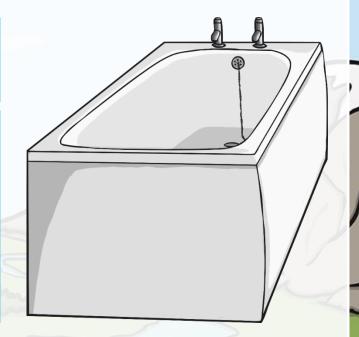
Filling a Bath

Did you know that just having one bath uses 80 litres of water! While a short shower can use as little as a third of that amount.

Solution

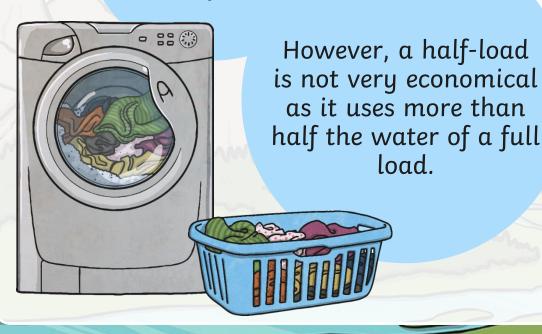
So try and take showers more often than a bath.

But when you do have a bath, you can minimise your water use by reusing your bathwater to water your houseplants or garden.



Washing Machines

Did you know that a full load in a washing machine uses 65 litres of water.



Solution

Try and wait until you have a full load before you wash your clothes.

Flushing the Toilet

Did you know that every time you flush the toilet 2.5 litres of water is used?

> According to the World Toilet Organization (WTO), the average person uses a toilet 2,500 times year, or six to eight times a day.

Solution

Some water-saving bag devices can be used in the cistern to save water.



A Dripping/Running Tap

Did you know that a dripping tap can waste up to 4 litres of water a day?

If you leave the tap running it wastes 6 litres per minute, so turning the tap off when brushing can save around 12-18 litres every time you brush your teeth.

If every adult in England and Wales remembered to do this, we could save 180 mega litres a day enough to supply nearly 500,000 homes.

Solution

When you are brushing your teeth try and turn off the tap.



twinkl.com

Using Hosepipes

Did you know that the average hosepipe uses 170 litres of water for every 10 minutes that it is turned on, and in one hour a hosepipe will use the same amount of water as a whole family would typically use in 2 days.

Solutions



So when watering your garden remember to use a watering can and not a hosepipe.

Also having a water butt to collect rain water reduces the amount of water wasted.