

# WELCOME TO WATER TRACKER HOUSE

**Each room holds a different challenge.**

Click into a room on the next page to start your tour, test your Water Tracker skills and learn more about The Ripple Effect.





**THE  
RIPPLE  
EFFECT**

# WATER TRACKER HOUSE



**THE OFFICE**



**WATER TRACKER TV**



**THE LIVING ROOM**

**THE BATHROOM**



**THE GARDEN**

**THE KITCHEN**



**THE PIPES**

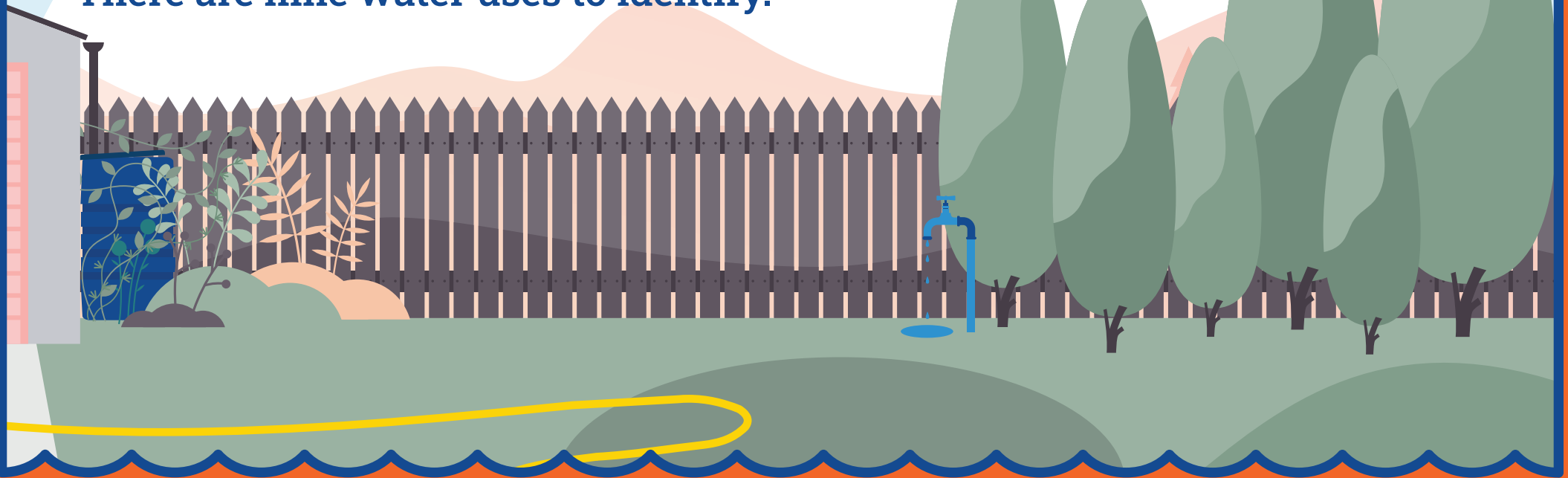


**WATER TRACKER HOUSE**

# THE GARDEN

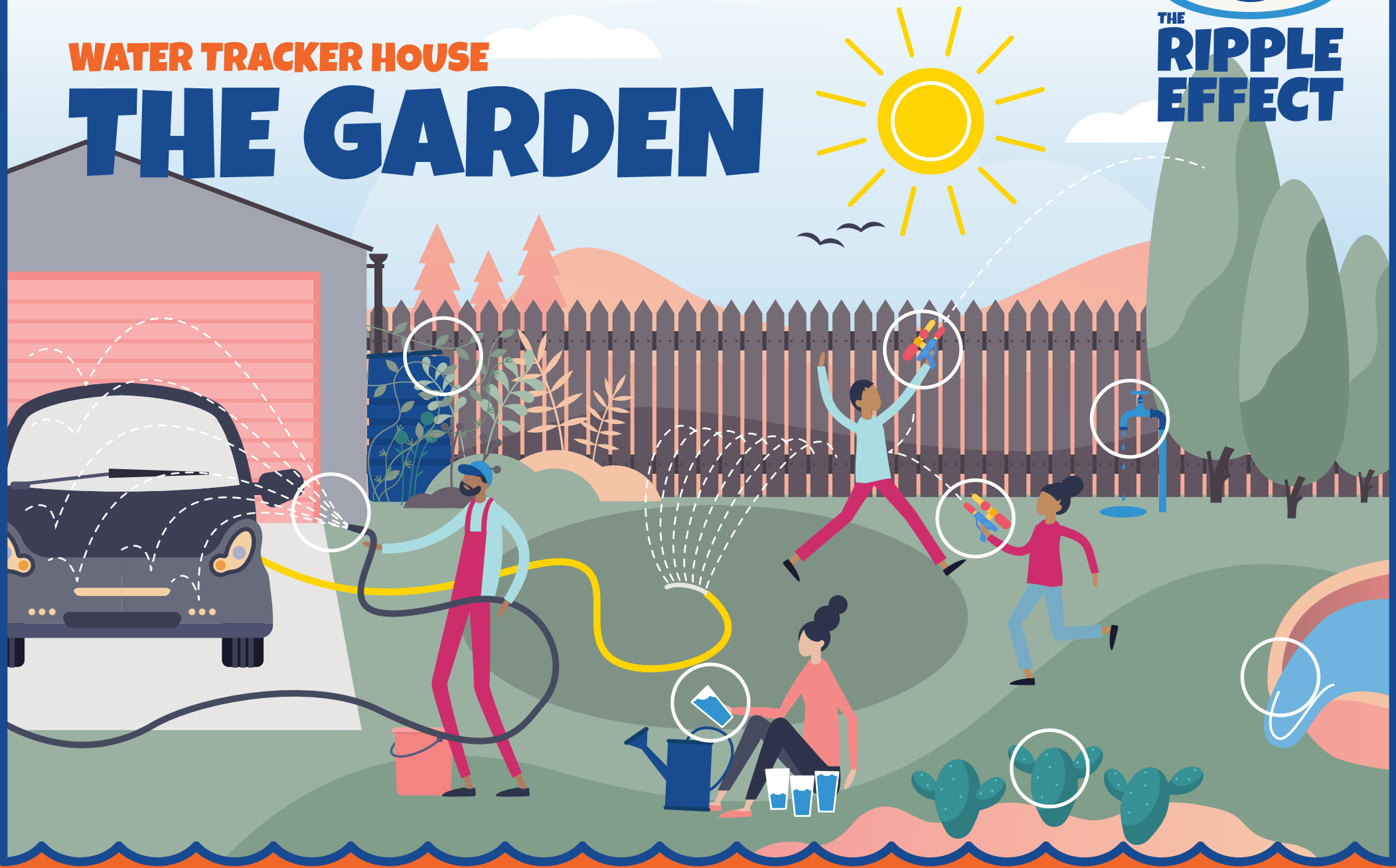
**Explore the garden looking for great uses of water and behaviours you think could be improved.**

Click on the different areas to find out more!  
There are nine water uses to identify.



**WATER TRACKER HOUSE**

# **THE GARDEN**





## **WATER TRACKER HOUSE: THE GARDEN**

# **YOUR CHALLENGE**

Now you've found all the waste and wise use of water. Can you create a Ripple Effect poster where you persuade your school community to make changes to the way they use water?

Before you get started, think about the ingredients for a great poster. Are you going to share information and statistics?

- There is lots of useful information in the Office where the water saving calculator is.
- Or go over to Water Tracker Training Camp and complete the challenges to earn your Water Fact badge.
- Are you going to create a great image that catches people's eyes as they walk around school? There are some great vintage posters you can find online that might inspire your design. Could you be inspired by the Arizona water use tower in Amie's water story (that's in the living room)?

**REMEMBER:** Use your poster to tell people about The Ripple Effect – give them ideas and get them making positive changes.

**WATER TRACKER HOUSE**

# THE OFFICE

**Welcome to the office.**

Here we're going to have a look at all the ways we can save water, then read about a few families stories and use your water saving knowledge to help people make great decisions about how they use water.

What's more, you'll even get a chance to calculate your own impact and see how you measure up!







## **WATER TRACKER HOUSE: THE OFFICE**

# **INVESTIGATING WATER IMPACT**





**Water Trackers are great at spotting opportunities to change water use habits.**

Have a look at the water saving ideas on the next slide then read the family case studies about how they use water. Can you think of any changes the families could make to use water more wisely?

<b>WATER WASTE</b>		<b>WATER SAVING RIPPLE</b>
<b>Leaving the tap running when: brushing teeth, the dishes, Washing your face, Washing vegetables</b>		Use a washing up bowl or put the plug in the sink. Why? A running tap uses 6 litres a minute whereas filling the sink or a washing up bowl uses around 6 litres in total.
<b>Waiting for cold, fresh water when getting a drink</b>		Remember how much water is wasted per minute when you leave the tap running? 6 litres an minute! Why not fill a jug of water and pop it in the fridge – no more waiting for the water to cool down and no more waste!

## WATER TRACKER HOUSE: THE OFFICE




# WATER SAVING IDEAS

WATER WASTE		WATER SAVING RIPPLE
Only filling the dishwasher half full		<p>If you only fill the dishwasher half way you're wasting half of the water!</p> <p>A washing machine uses on average 50 litres each time you use it – if it is only half full you're wasting around 25 litres of water.</p>
Having baths		<p>Baths are great for an occasional treat, but remember baths use on average 80 litres. Get into a 4 minute shower and you're likely to only use around 60 litres – less if you're not using a power shower! However, a half full bath is still better than a long indulgent shower, and a great option if you don't have a shower.</p>
Having long showers		<p>Showers are the best option IF you have one, and you don't dawdle. Showers use on average 15 litres a minute.</p> <p>The average shower time in the UK is around 9 minutes – that's nearly 150 litres of water! 4 minutes is a perfect amount of time for a shower and only uses 60 litres or less.</p> <p>You can also think about putting in a bucket in the shower to collect the wasted water when you're waiting for the shower to heat up... this water can be used to flush the toilet with!</p>
Only filling the washing machine half full		<p>It's best to fill the washing machine to capacity. A washing machine uses on average 50 litres each time you use it – if it is only half full you're wasting around 25 litres of water.</p>



## **WATER TRACKER HOUSE: THE OFFICE**

# **WATER SAVING IDEAS**

<b>WATER WASTE</b>		<b>WATER SAVING RIPPLE</b>
<b>Ignoring a leaking tap</b>		See if you can get the leak repaired and collect the wasted water in the meantime – you could use it to flush the loo or for plants. Drips can waste at least 20 litres a day (Around two full bucket loads of water is wasted from slow dripping taps in a day.)
<b>Flushing the toilet each time you go</b>		<p>Normal toilets uses between six and nine litres of water. If you've only had a wee try to not flush the toilet.</p> <p>Each time you don't flush you're saving up to nine litres! If you have to flush and you have the option of a short flush, use the short flush as it may only use four litres – you're saving a minimum of four litres. You can also check for leaks in your toilet.</p> <p>Put some food colouring into your tank and see if, in between flushes, the colouring appears in the toilet bowl. If it's there you need to get the leak repaired.</p>
<b>Using sprinklers and hose in the garden</b>		<p>Sprinklers are great in the garden but can waste a huge amount of water – upto 1,000 litres an hour.</p> <p>Try setting time limits for water fights in the summer time and think carefully about using paddling pools, some use over 350 litres. If you do use a paddling pool try and reuse the water elsewhere in the garden.</p>



## **WATER TRACKER HOUSE: THE OFFICE**

# **INVESTIGATING WATER IMPACT**

## **Meet Joe**

Joe lives with his Grandma and Grandad. Both his Grandma and Grandad love cooking and often prepare vegetables for each meal leaving the tap running. There isn't a dishwasher so everyone takes turns to wash up and dry.

In the summertime, all of Joe's family gather at his Grandma and Grandad's and the children enjoy playing in the sprinkler and jumping in and out of the paddling pool. Joe's grandparents are extremely proud of their garden and over the summer use spend a lot of time using the hose to water the flowerbeds.

Football is a family hobby and Joe plays for two local teams. This means that there is often dirty kit that needs washing. As there are only three of them in the house sometimes the washing machine is on with only a half load.

## **HOW CAN JOE AND HIS GRANDPARENTS use Less WATER?**



## **WATER TRACKER HOUSE: THE OFFICE**

# **INVESTIGATING WATER IMPACT**

## **Meet Tanesha**

Tanesha has a large family - she has five brothers and sisters. The family tried to be careful with their use of water during the day, the washing machine is only put on when it's full and the dishwasher is also always full when it's on. As there are a lot of people in the house the toilet is often in use with lots of flushing going on during the day and night.

The family is great at keeping up their hydration levels and is often filling up drinking glasses from the tap, though unfortunately the tap has started leaking.

Tanesha's parents are very proud of the family car - it's pretty big to fit all of them in. It's a family tradition to clean the car each Sunday with everyone taking turns to use the hose.

## **HOW CAN TANESHA AND HER FAMILY USE LESS WATER?**



## **WATER TRACKER HOUSE: THE OFFICE**

# **INVESTIGATING WATER IMPACT**

## **Meet Jay**

Jay has just moved into his first flat. It is fully fitted out with a dishwasher and a washing machine. Jay's new job keeps him quite busy and he hasn't had a chance to buy a full set of cutlery, glasses and dishes which means he often uses the dishwasher when it's only half full.

There is a bit of a problem with the shower as it takes quite a while to heat up and Jay has now got into the habit of listening to a 15 minute podcast while in the hot shower.

Jay's hobby is his collection of houseplants. He has become an expert at looking after them and has a strict watering regime in place.

## **HOW CAN JAY USE LESS WATER?**



**WATER TRACKER HOUSE: THE OFFICE**

# YOUR WATER IMPACT

Now you've helped other people with their water use, it's time to get a better idea of the positive impact you are making, and what you could do more of.

Remember, when we all make small changes to our water use, we can make big waves in protecting our precious water supply.

Use our **Water Impact Calculator** to see the impact that you, your friends, and your family could be making through small changes.



**WATER TRACKER HOUSE**

# **THE KITCHEN**

## **HIDDEN WATER WASTE**

**About 90% of the water we consume is invisible to us.**

Many household items consume lots of water when they are produced. Sometimes the production of our household items damages the water supply of other countries, so it's worth thinking about it a little more.

Read the case studies in the Office to learn even more about kitchen water waste.



## WATER TRACKER HOUSE: THE KITCHEN

Have a look at the following items and see if you can guess how much water it takes to make or grow them. Can you put them in order from lowest water use to highest water use? Work with a partner if you can and write down your answers in your notebook.

LITRES OF  
WATER USED IN  
PRODUCTION:

2,700L

125L

30L

2,500L

1,700L

8,000L

200L

30L

1 EGG



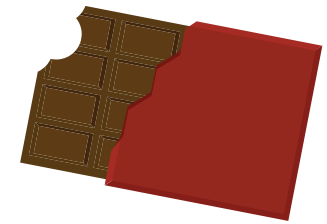
CABBAGE  
100g



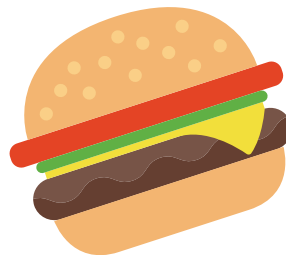
1 PAIR OF  
JEANS



CHOCOLATE  
100g



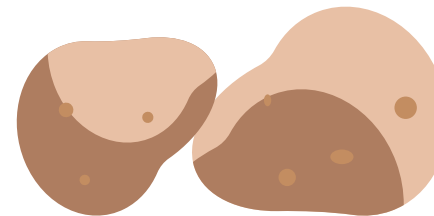
1 BURGER



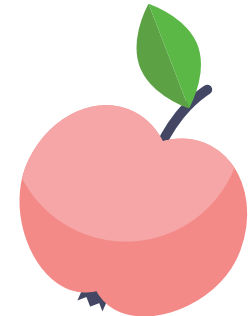
1 T-SHIRT



POTATOES  
100g



1 APPLE



**WATER TRACKER HOUSE: THE KITCHEN**

# THE ANSWERS

**PAIR OF  
JEANS**



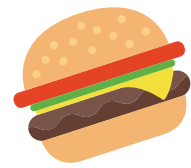
**8,000** LITRES

**1 T-SHIRT**



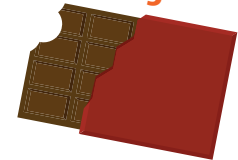
**2,700** LITRES

**1 BURGER**



**2,500** LITRES

**CHOCOLATE**  
100g



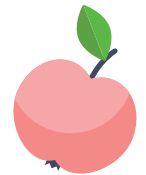
**1,700** LITRES

**1 EGG**



**200** LITRES

**1 APPLE**



**125** LITRES

**CABBAGE**

100g



**30** LITRES

**POTATOES**

100g



**30** LITRES



WATER TRACKER HOUSE

# THE KITCHEN





## **WATER TRACKER HOUSE: THE KITCHEN**

# **HIDDEN WATER WASTE**

## **What did you notice?**

Did anything surprise you about the hidden water in our food and household items? Here are some extra facts to get you thinking.

- Did you know, an average family wastes £700 of food every year! A lot of water will have gone into the production of that wasted food...
- Think about the clothes in your wardrobe - have you ever found that you've only worn an item once or twice and then you've grown out of it? What happens to items of clothing that are ripped or stained in your house? That's potentially a huge amount of water that's been used to produce an item that quickly finds its way into the bin.
- Visit the Office to study up on other kinds of water waste that happens in the kitchen!

**WATER TRACKER HOUSE**

# THE LIVING ROOM

You're about to listen to Amie's diary. Amie lives in Phoenix, Arizona, USA. This is an area that has suffered from drought for the last twenty years.

Click the circle to listen to Amie's water diary, answer some questions and then try and make your own!



**WATER TRACKER HOUSE: THE TV**

# EXPERIMENT 1

Click the TV to watch the film and try these water saving experiments for yourself!



**WATER TRACKER HOUSE: THE TV**

# EXPERIMENT 2

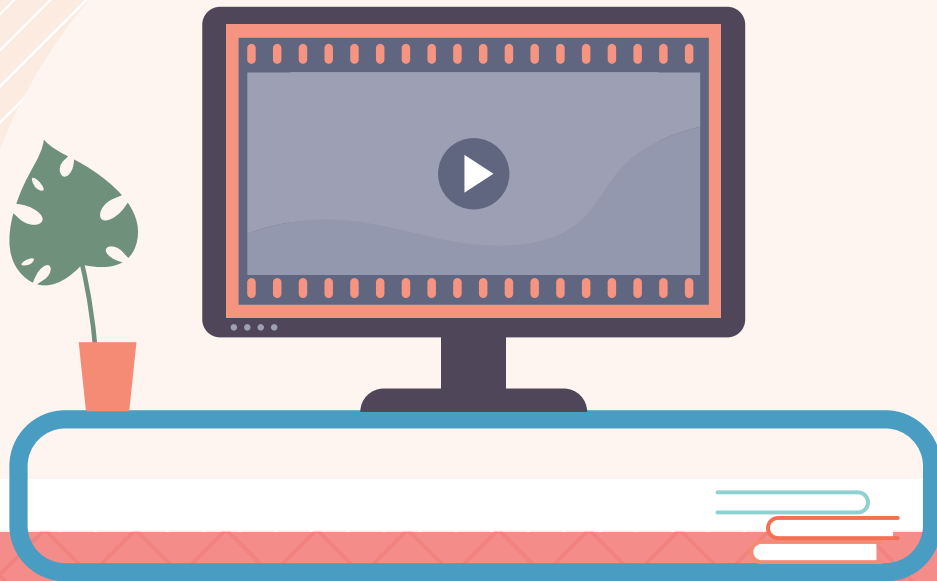
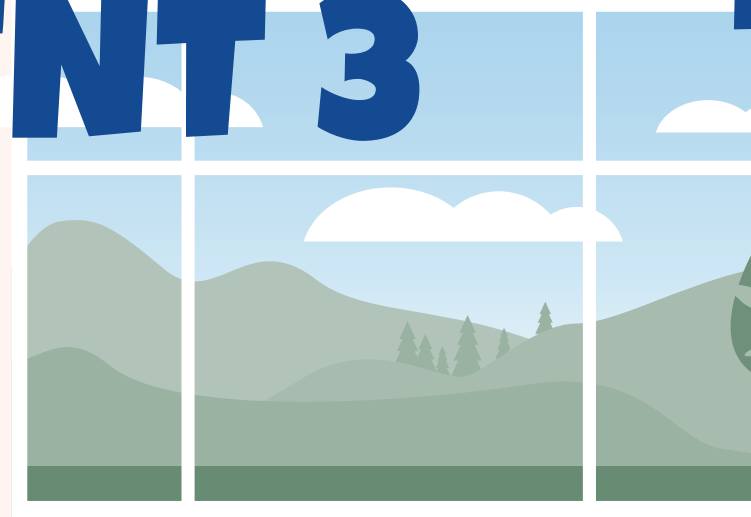
Click the TV to watch the film and try these water saving experiments for yourself!



**WATER TRACKER HOUSE: THE TV**

# EXPERIMENT 3

Click the TV to watch the film and try these water saving experiments for yourself!

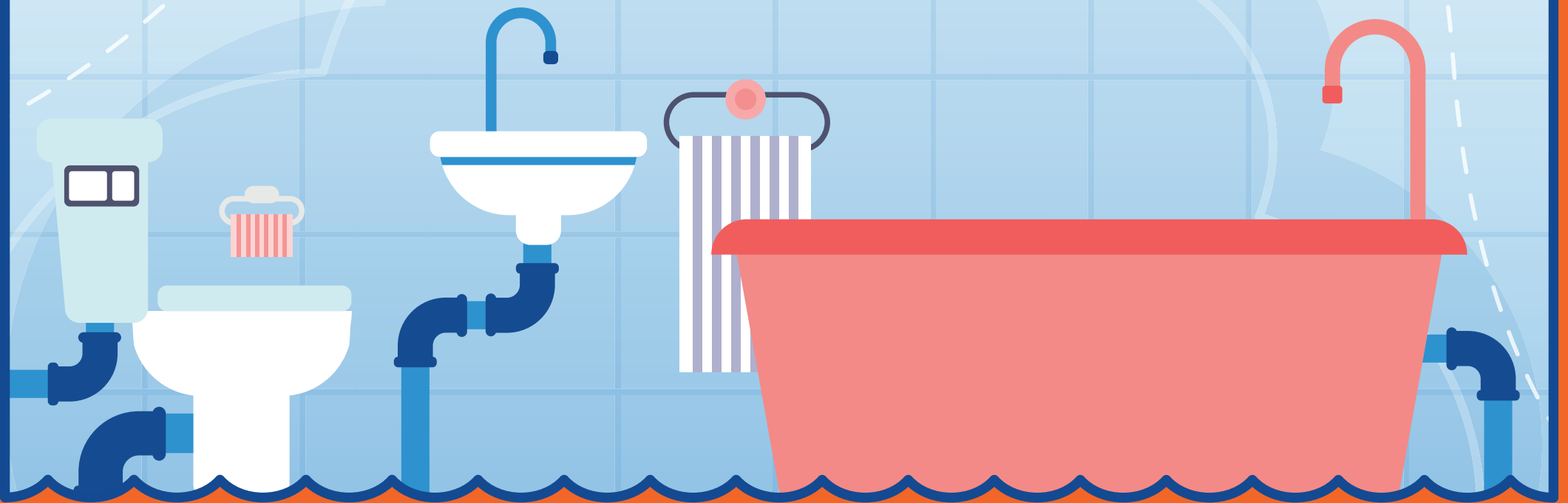


**WATER TRACKER HOUSE**

# THE BATHROOM

**Lots of water gets used in the bathroom.**

Find the bathroom facts and see how many ways you can improve your use of water in this room alone.



**WATER TRACKER HOUSE**

# THE BATHROOM







**WATER TRACKER HOUSE: THE BATHROOM**

# WHAT IS YOUR RIPPLE EFFECT PLEDGE?

Why not share the changes you are going to make to the way you use water and tell us who else you are going to persuade to change their behaviour!

Try and visit as many of the rooms at **Water Tracker House** before deciding on your pledge – there are lots of great ripple ideas to choose from.

Now it's time to print your pledge template on the next page and make your commitment to saving water.



# WATER TRACKER HOUSE

## MY RIPPLE EFFECT

# PLEDGE

I: .....

Pledge to: .....

I'm going to persuade: .....

to join The Ripple Effect too and ask them to:

.....





**WATER TRACKER HOUSE**

# THE PIPES

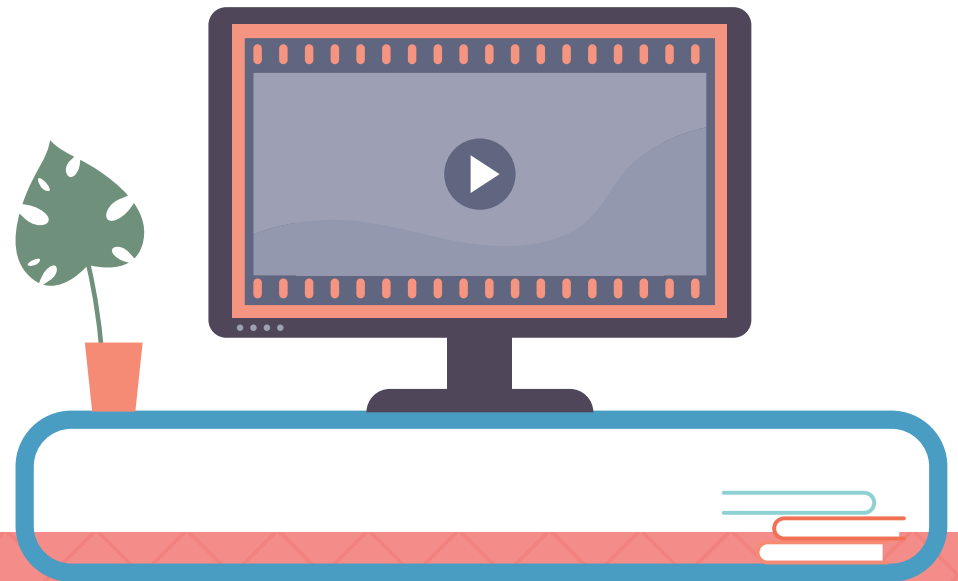
**Welcome to the pipes  
that bring water into  
your home.**



**WATER TRACKER HOUSE: THE PIPES**

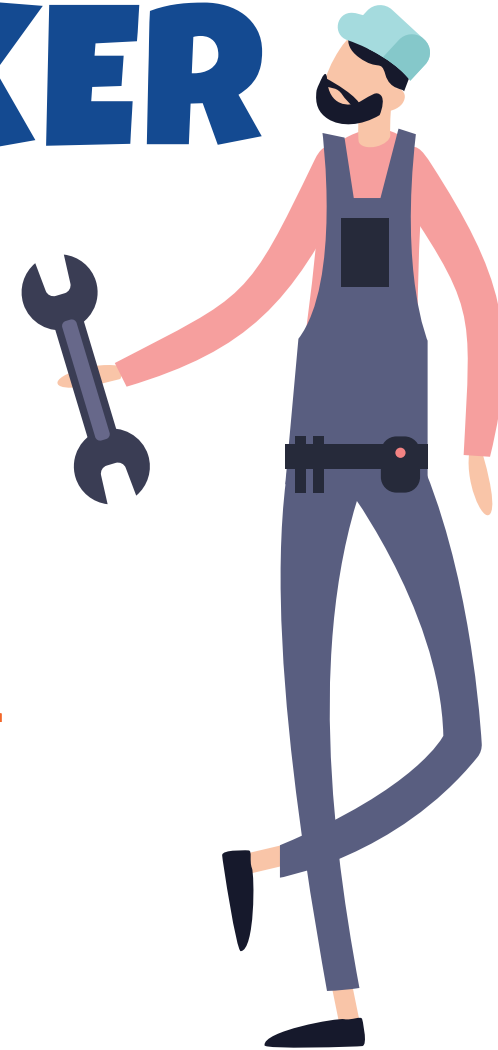
# **MEET THE WATER WORKERS**

**Watch this film to learn more  
about how water gets to  
your house and the  
people that make  
it happen.**



**WATER TRACKER HOUSE**

# **WATER WORKER QUIZ**



**How much do you know  
about the treatment cycle and  
do you have what it takes to  
join the team?**



## **WATER TRACKER HOUSE: WATER WORKER QUIZ**

- 1. Can you remember how many people work at Northumbrian Water and Essex & Suffolk Water and how many different jobs there are?**
  - A: 3,000 people and 800 jobs**
  - B: 3,000 people and 500 jobs**
  - C: 500 people and 80 jobs**
  
- 2. What did Tom speak to farmers, businesses and landowners about?**
  - A: How to use less water**
  - B: How to reduce pollution in water that hasn't been treated yet**
  - C: How to use less electricity**



## **WATER TRACKER HOUSE: WATER WORKER QUIZ**

**3. What does Tom use sometimes to quickly find water problems?**

- A: Drones**
- B: Specially trained pigeons**
- C: Satellite imagery**

**4. What does Diran have a special room for?**

- A: Taking out harmful bacteria and germs from water**
- B: Taking a break and listening to soothing sounds of waves**
- C: Making sure that water tastes and smells great**



## **WATER TRACKER HOUSE: WATER WORKER QUIZ**

**5. In which season does Katie say we use a lot of water?**

- A: Spring**
- B: Autumn**
- C: Summer**

**6. What is Steve in charge of?**

- A: Making sure the treatment cycle keeps flowing by removing any blockages in sewer pipes**
- B: Talking to customers and helping with their problems**
- C: Ensuring that there is enough clean water ready to provide all the water that people need**





## **WATER TRACKER HOUSE: WATER WORKER QUIZ**

**7. Which skills does Denise use every day in her customer services job?**

- A: Hands on fixing and engineering**
- B: Listening and quick thinking**
- C: Teamwork**

**8. Which of the sentences below are true?**

- A: A broad range of skills are suited to jobs at Northumbrian Water and Essex & Suffolk Water**
- B: When we all make small changes to our water use, we can make big waves in protecting our water supply**
- C: Designers and inventors work at Northumbrian Water and Essex & Suffolk Water**



**WATER TRACKER HOUSE: WATER WORKER QUIZ**

# **SKILLS MATCH**

**Where could you work in the water treatment cycle?**

## **WATER TRACKER HOUSE: WATER WORKER QUIZ**

**9. If you were asked to do your homework, what would your answer be?**

- Excellent – I’m just putting a team together so we can play to our strengths and divide the work up between us**
- Can you tell me more about why the homework was set – what am I going to learn?**
- I’ve analysed the best time to complete the homework in order to get the best results**
- Of course, that’s no problem at all. I’ll get that sorted out for you as soon as possible**

## **WATER TRACKER HOUSE: WATER WORKER QUIZ**

### **10. Which movie would you prefer to watch?**

- ★ Mr Peabody and Sherman – I love learning**
- The Incredibles – I love a team**
- △ Inside Out – I'm great with feelings**
- Finding Nemo – I love a task**

### **11. There is an emergency... what do you do?**

- ★ Try and remember as much information as possible so you can be helpful when the emergency is over and people need to know what happened**
- Speak to the people around you and work out what needs to be done**
- Draw on your expert knowledge and see if you can help in any way**
- △ Try to keep everyone as calm as possible**

## **WATER TRACKER HOUSE: WATER WORKER QUIZ**

**12. Where would your ideal special day out be?**

- Paint-ball
- Go to the theatre to see a show
- Anywhere that has a maze
- The Science Museum

**13. What's your favourite animal?**

- Squirrel
- Elephant
- Honey Bee
- Dolphin

## **WATER TRACKER HOUSE: WATER WORKER QUIZ**

**14. At the park what are you most likely to do?**

- Get a team game started with all the kids in the park
- Find new ways to use the play equipment
- See if you can improve on your fastest run across the park
- Have a good catch up with your friends and make some new friends

**15. If school only had one lesson everyday which lesson would you choose?**

- Science
- Drama
- Sports
- Design and Technology

## **WATER TRACKER HOUSE: WATER WORKER QUIZ**

### **16. Which sentence best describes you?**

- You love getting to know all of the details in life.  
You're good at staying focused on a task**
- You are great at listening and always help your friends  
out with solving problems**
- You're an all rounder with lots of skills but you're  
particularly brilliant at taking the lead and making  
everyone feel good in a team**
- You are super knowledgeable and able to share facts  
about your favourite subjects easily**



## **WATER TRACKER HOUSE: WATER WORKER QUIZ**

# **RESULTS**

### **MOSTLY CIRCLES**

.....

You'd make a great **Catchment Project Manager** or **Maintenance Operative** like **Tom** and **Steve**.

You're great at **problem solving, technology, deep knowledge and communication.**

### **MOSTLY STARS**

.....

You'd make a great **Lab Manager** like **Diran**.

You have good **attention to detail, you're responsible and love testing ideas out.**

### **MOSTLY SQUARES**

.....

You'd make a **fantastic Water Supply Manager** like **Katie**.

You're a great **communicator who is able to lead a team. You like solving problems and have a great eye for detail.**

### **MOSTLY TRIANGLES**

.....

You'd be a great **member of the Customer Services team** like **Denise**.

Your **communication skills are brilliant, you're resilient and able to stay calm at all times. You're also pretty good at managing stress.**





**NORTHUMBRIAN**  
**WATER** *living water*



THIS IS TO CERTIFY THAT:



HAS EARNED THEIR

**WATER  
TRACKER  
BADGE**

**NORTHUMBRIAN  
WATER** *living water*