

# WORLD-BEATING WATER



The UK has some of the best quality water in the world and at Bristol Water we make sure every drop you get from your tap is tip-top!



## Water sorter!

Follow our 7-step water treatment process and learn lots of new words!

### Step 1

Our water treatment starts with **screening** – this is where we take out large solid objects like stones.

### Step 2

Next step is **ozonation** where we change dissolved things like metals into particles that we can later stick together.

### Step 5

Now it's on to **filtration** which gets rid of any remaining bits and makes the water look clean and sparkling...

### Step 4

Next up, particles and colour are removed in a process called **clarification**.

### Step 3

We then carry out **coagulation** and **flocculation**, which sticks smaller solids together to make larger ones so we can remove them.

### Step 6

... followed by a burst of **ultraviolet irradiation** to zap any harmful organisms (a fancy word for bugs and bacteria).

### Step 7

And finally, it's **chlorination** which is where we add tiny amounts of chlorine to kill off any remaining nasties and protect the water on its journey to you. Now, who fancies a nice crisp glass of Bristol Water?



## DIY filtration

Hi, I'm Professor H<sub>2</sub>O and I'm going to teach you how to filter water. Follow me...

### You will need:

- ✓ Dirty water (you can mix mud with water, just make sure to wash your hands after)
- ✓ A jug
- ✓ A funnel
- ✓ Paper towel or muslin cloth
- ✓ An empty bottle or container
- ✓ Sand (if you can)
- ✓ Stones



**Step 1:** Place the paper towel or muslin cloth into the funnel then pop the funnel into the bottle.

**Step 2:** Fill up your jug with dirty water and slowly pour the water into the funnel, making sure it runs through the paper towel or muslin cloth.

**Step 3:** Take a look at the water in the bottle. Does it look cleaner?

**Step 4:** Take a look at the paper towel or muslin cloth. Does that look dirty?

**Step 5:** Add sand to your water, replace the paper towel or muslin cloth and repeat the experiment. Then do it again with stones.

**Which leaves you with the cleanest water? Why do you think that is?**

**Important!** Please don't drink the water afterwards as dirty water can make you very ill.

**Can you spot our underwater heroes Squidge and Snap in our treatment process? When would they be removed?**

