

Teacher's solutions

Quick Splash 1: How much water?

Activity	Litres
Using a hose to water the garden or wash a car	150 (15 litres per minute)
A four-minute power shower	80 (20 litres per minute)
Bath	80
A full washing machine	50
A four-minute shower	32 (8 litres per minute)
A full dishwasher	14
Washing up in a plugged sink	12
Washing a car with a bucket of water and sponge	10
Big flush on toilet	6
Brushing teeth with tap running	6
Small flush on toilet	4
Using a watering can in the garden	4
Brushing teeth with tap off	0.5
A drink	0.5





Quick Splash 3: What do you know about water?

- False** – only 1% of water is liquid fresh water, 97% of water is found in the sea and salty, and 2% is locked up as solid ice in the Arctic and Antarctic
- True** – no new water is made in the water cycle, the same water is continuously recycled
- True** – water = liquid, ice = solid, water vapour = gas
- False** – water boils at 100°C. Water freezes at 0°C
- True** – we need to become Water Heroes to try to reduce this so that we have enough water to go around in the future
- True** – in the UK we have safe water supplied by taps, but this is not the case in many places in the world
- False** – a bath uses 80 litres of water, more than double the volume of water used by a four-minute shower (32 litres)
- False** – you should only flush the three Ps down the toilet: pee, poo and paper. Other waste should be binned, recycled or composted.
- True** – One in three people in the world do not have access to a toilet
- True** – You should drink six to eight glasses of water each day to keep healthy. Remember you might need to drink more than this if you are playing sport or if it is hot.

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Quick Splash 5: Conversions





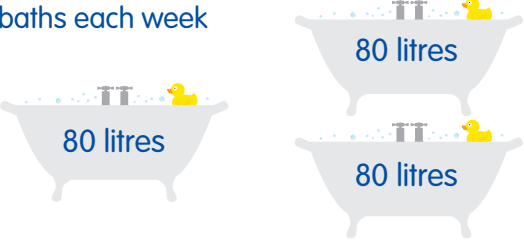
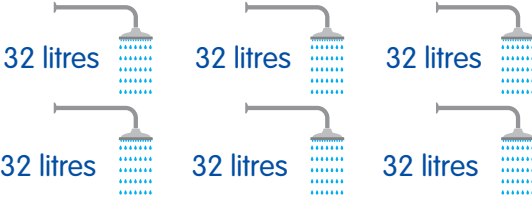

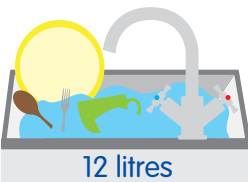
How many millilitres in?		How many litres in?	
1 litre	1000ml	2000 ml	2 litres
2 litres	2000ml	6000 ml	6 litres
0.25 litres	250ml	3500 ml	3.5 litres
1/5 litre	200ml	750 ml	3/4 litre

	5 drinks cans  330 ml	3 water bottles  0.75 litre	6 glasses  0.25 litre	2 sinks full  12 litres
How many millilitres?	1650ml	2250ml	1500ml	24000ml
How many litres?	1.65 litres	2.25 litres	1.5 litres	24 litres

How many litres are used?

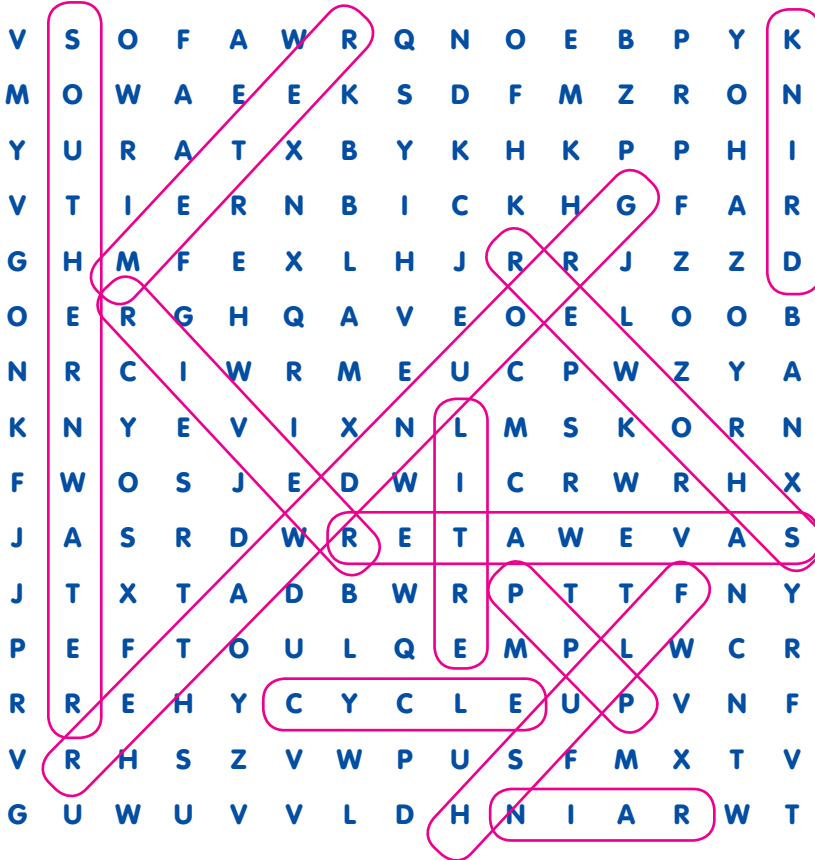
Use the signs > or < to show which activity uses the larger amount of water

Choose the correct sign > or <

Water the garden with a hose for 30 minutes (150 litres per 10 minutes) 	>	Water garden with 5 watering cans full 
Wash the car with a hose for 15 minutes (150 litres per 10 minutes) 	>	Wash the car with 2 buckets of water and a sponge 
3 baths each week 	>	6 showers each week 
Use the dishwasher 3 times a week 	<	Wash up once each day in a plugged sink 

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Quick Splash 6: Water Hero wordsearch



1. No new water is ever made on planet earth. It is continuously reused in the water **cycle**.
2. You should **drink** six to eight glasses of water each day to keep your body and mind healthy.
3. Choose the correct **flush** on the toilet to help **save water**. Use a small flush if you have been for a pee.
4. **Southern Water** is the company that supplies water to our school. The water is taken from a **river** or **groundwater**.
5. **Rain** falls from clouds in the sky.
6. **PPP** stands for pee, poo and paper – the three Ps that you can flush down the toilet.
7. A Water Hero chooses a **shower** instead of a bath, because it uses less than half the water.
8. A water **meter** measures how much water we use at school. The unit that water is measured in is called a **litre**.

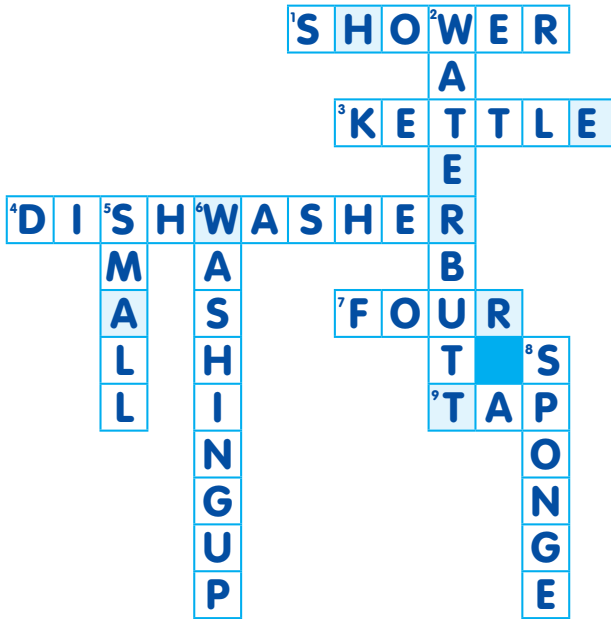
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Quick Splash 7: Water cycle story-telling



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Quick Splash 8: Water-saving word puzzles



Water-saving hidden message



Quick Splash 11: Who is the Water Hero?

Sam is the water hero

Nina

Activity	Week total (litres)	Activity	Week total (litres)
One four-minute shower every day	224	One bath every day	560
Fills the dishwasher and uses twice a week	28	Runs the dishwasher four times a week	56
Full load of washing – once each week	50	Puts washing machine on three times each week	150
Brushes teeth with tap off twice each day	7	Brushes teeth with tap running twice each day	84
Three toilet flushes each day	126	Three toilet flushes each day	126
Waters garden with two watering cans on Saturday	8	Waters garden for 20 minutes with the hosepipe twice a week	600
Washes car on Sunday with bucket and sponge	10	Washes car for 10 minutes with the hosepipe on Friday	150
Total water used in week (litres)	453	Total water used in week (litres)	1,726

Quick Splash 12: Are you a Water Hero?

Questions	A	B	C
1	10	10	0
2	0	10	0
3	0	5	10
4	0	10	0
5	10	0	0
6	0	0	10
7	10	0	0
8	0	5	10
9	10	0	0

Scores:

70+ – You are a Water Hero

Less than 70 – highlight ways that you can save water

Quick Splash 13: Flush it or bin it?

2. Pee, Poo, Paper

Where to dispose of the items			
Waste Bin	Toilet	Recycling	Compost
Cotton wool	Poo	Paper and cardboard	Vegetable peelings
Plasters	Toilet Paper		
Nappies			
Wet wipes			
Cooking oil and fat			