

# How much water do we use?

## OBJECTIVES

To estimate the number of times that each water usage activity occurs in a household per day.

To use these estimates and the data provided to calculate the average amount of water (in litres) used per household per day and to record this information on the table provided.

## TEACHING ACTIVITIES

Demonstrate the process of estimation and calculation using one or more of the water activities on Activity Sheets 15.2 and 15.3.

Ask the children to complete the remaining activities, either independently, in pairs or in groups. Compare results and discuss the implications of these in class discussion.

## EXTENSIONS

Find the weekly total for the entire water usage within a household (see Activity Sheet 16). Design class database on the computer and print out information in graph form.

## KEY VOCABULARY

Per person, per family, per day, estimate, calculate, total.

## ASSESSMENT CRITERIA

Can the children reasonably estimate the number of water activities per day?

Can the children accurately calculate total amounts of water used per day?

Are the children able to record and discuss findings in a meaningful way?

# How much water do we use?

The amounts of water shown below indicate approximately how much water is used for each activity.

<b>ACTIVITY</b>	<b>AVERAGE AMOUNTS USED</b>
Taking a bath	80 litres
Taking a shower	30 litres
Flushing the toilet	9 litres
Washing face / hands	9 litres
Drinking and cooking	10 litres per day
Brushing teeth	10 litres
Running the dishwasher	50 litres per load
Running the washing machine	100 litres per load
Watering the garden with a sprinkler	600 litres every hour

# How much water do we use?

Can you estimate how much water you use every day?

WATER ACTIVITY	ESTIMATED NUMBER OF TIMES PER DAY	AVERAGE AMOUNT USED	TOTAL LITRES OF WATER USED EVERY DAY
Taking a bath		x 80 litres =	
Taking a shower		x 30 litres =	
Flushing the toilet		x 9 litres =	
Washing face / hands		x 9 litres =	
Drinking and cooking		x 10 litres =	
Brushing teeth		x 10 litres =	
Running the dishwasher		x 50 litres =	
Running the washing machine		x 100 litres =	
Watering the garden with a sprinkler		x 600 litres =	

**TOTAL AMOUNT OF WATER USED IN A DAY**