


 water a day!
id you know, filling did yo the washing up the wather than machine it on half full turning it on save you will help save litres of house 8 every day!



Activity 1

Adding up your usage
Look at the information you collected for your water diary. Can you use your maths skills to help complete the tables below?

|  | Totals per day |
| :---: | :---: |
| Day | Total litres used |
| Monday |  |
| Tuesday |  |
| Wednesday |  |
| Thursday |  |
| Friday |  |
| Saturday |  |
| Sunday |  |
| Total for week |  |
| Average weekly usage |  |


| Totals per activity |  |
| :---: | :---: |
| Activity | Total litres used over week |
| Flushing toilet |  |
| Washing |  |
| Drinking |  |
| Washing machine |  |
| Hand washing dishes |  |
| Dishwasher |  |
| Shower |  |
| Bath |  |
| Brushing teeth |  |
| Washing car |  |
| Total water used |  |

## Drawing a graph

Now you've completed your tables, can you make a graph to show this data? Use this sheet to draw a simple bar graph of your results.


# Lesson 5 <br> <br> Activity 1 

 <br> <br> Activity 1}

## The cost of water

Remember, water costs change all of the time. For this exercise, use the following data:
$\int 1$ litre of clean water pumped to your home
$=0.2$ pence

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Producing 1 litre of clean tap water creates 0.0003 kg

## or 0.3 g of carbon dioxide.

Think about your answers and write them in the boxes!

1 A bucket holds 3 litres of water. Nick uses 10 buckets to wash the car. How much does this cost?

2 Fiona leaves the tap running while brushing her teeth. This uses 6 litres of water. If she brushes her teeth twice a day, how much water does she use? What is the cost of this?

3 Sam decides to water his garden. His hosepipe uses 1000 litres of water an hour. How much water does he use in 30 minutes?

4 A bath uses 80 litres of water. A power shower uses 150 litres. What is the difference in the amount of water and the costs?

5 Flushing the toilet uses about 6 litres of water. What is the cost in pence per flush? How much carbon dioxide is created to make this water?

6 Tom has 4 showers per week using 60 litres per shower. How much water does he use?

7 The washing machine uses 50 litres to do a full load of washing What are the money and carbon costs for 1 load of washing?

8 A water meter records that a house is using 400 litres of water per day. Four people live there. How much water do they use? What is the cost?
9 The Smith household uses 500 litres a day. Mr Smith goes away for the day and the water meter records usage as 380 litres. How much does Mr. Smith usually use?
10 The family dishwasher uses 10 litres of water per cycle. The dishwasher is used twice a day. How much does it cost per day? $\square$ $\square$

## The cost of water

Remember...water costs change all of the time For this exercise, use the following data:


4 Think about your answers and write them in the boxes!

1 A bucket holds 9 litres of water. Nick uses 10 buckets to wash the car. How much does this cost?
2 Sam decides to water his garden. His hosepipe uses an average of 1000 litres an hour. He spends 15 minutes watering his garden. How much water does he use? How much money does this cost? What is the carbon cost?

3 Flushing the toilet uses about 6 litres of water. What is the cost in pence per flush? How much carbon dioxide is created to make this water? If a toilet is flushed 15 times a day, how much water does it use and what is the cost?

4 A washing machine uses 50 litres to do a full load of washing. What are the money and carbon costs for 1 load of washing? If a family does 8 loads of washing a week, what is the cost per week? $\square$
5 A family dishwasher uses 14 litres of water per cycle. The dishwasher is used twice a day. What is the cost for the week?

6 Fiona leaves the tap running while brushing her teeth. This uses 6 litres of water. If she brushes her teeth twice a day, how much water does she use in 1 week? What is the cost of this?

7 Dylan prefers to have baths rather than showers. He has 104 baths in a year. How many baths is this per week? If a typical bath uses 80 litres of water, how much does he use in one week? How much does he use in a year? How much money does this cost his family?

8 Tom has 4 showers per week using 60 litres per shower. Dan has 5 baths per week using 80 litres per bath. Who uses the most water? What is the difference in their water consumption? What is the difference in their water costs?

9 A water meter records that a house is using 612 litres of water per day. Four people live there. How much water do they each use? What is the cost?

10 The Smith household uses 720 litres of water per day. Mr Smith goes away for the day and the water meter records 620 litres How much water does Mr. Smith use?




