Hi! Welcome to the water audit exercise! You can learn how to locate the water meter, check for leaks, install thimbles and also achieve water savings in your house. Click to start the tutorial or Login to start the exercise.

Chapter 1:
Locating your water meter
Check for leaks

Chapter 2:
Installing Thimbles
Tips to save water

Chapter 3:
How to calculate water usage
Chapter 1

Locating Your Water Meter
Check for Leaks

Water meters are used to measure how much water is used in your home.
They are usually found in the meter compartment outside your home.
To take the water meter reading, read the first five numbers from the left on the water meter.

Checking for leaks in your home is easy! Just turn off all the water fittings and watch if the meter dial is moving. Unless...

There's a leak!

Meanwhile...
Chapter II

Installing Thimbles

Installing a thimble at your home is easy and it can help save water!
First step is to remove the aerator

Next, take out the washer
Next, take out the washer and put in the thimble.

And finally fix back the aerator and you have installed a thimble!
Chapter II

Tips to Save Water
Check your water bill to monitor your family's water consumption. If your consumption is more than average, re-look your family's water usage habits.

Tip 02

Use a mug when you brush your teeth.
TIP 03

Keep showers to under 5 minutes and turn off the tap while soaping.

TIP 04

Wash vegetables and dishes in a filled sink or container instead of under a running tap.
TIP 05

Wash clothes on a full load when using washing machine.

TIP 06

Collect rinse water from the washing machine for flushing the toilet or mopping the floor.
TIP 07

Check for leaks in flushing cisterns, pipes, taps, etc and repair them immediately to prevent water wastage.

TIP 08

For dual flush flushing cistern, use reduced flush for liquid waste.
Chapter III

How to Calculate Water Usage

Do you know how much water you use in a day at home? Let me show you how...
FORMULA

1st
first reading

Take down 1st water meter reading

FORMULA

1st
first reading

2nd
Second reading

After the second week, take down the reading again
Next, note the number of people staying in your home.

Now let's calculate water used in a day using the formula and also calculate the water usage per person per day.
FORMULA

\[
\frac{\text{2nd reading} - \text{1st reading}}{\text{Number of Days between 1st & 2nd meter reading}} = \text{Water used per day}
\]

First, take the 2nd reading minus 1st reading divided by the number of days...

FORMULA

\[
\frac{\text{2nd reading} - \text{1st reading}}{\text{Number of Days between 1st & 2nd meter reading}} = \text{Water used per day}
\]

...to calculate the water used per day
FORMULA (1m³ = 1000 litres)

Water used \times 1000 \text{ Litres per day} \quad \text{Number of people staying in your home}

Next, to calculate the amount of water a person used in a day, we take the water used per day multiply by 1000 litres divided by the number of people staying in your home.

Now you know how much water you have used in a day. Let’s start reducing your usage further by installing thimbles and practising good water saving habits in your home.
One week later after you have installed thimbles and practised good water saving habits, take the 3rd reading.

Now, we shall calculate the 2nd water usage per day.
FORMULA (1m³ = 1000 litres)

\[
\frac{\text{3rd reading} - \text{2nd reading}}{\text{Number of Days between 2nd & 3rd meter reading}} = \text{2nd Water used per day}
\]

Take the 3rd reading minus 2nd reading divided by the number of days...

FORMULA (1m³ = 1000 litres)

\[
\frac{\text{3rd reading} - \text{2nd reading}}{\text{Number of Days between 2nd & 3rd meter reading}} = \text{2nd Water used per day}
\]

...to calculate the 2nd water used per day.
FORMULA \((\text{m}^3 = 1000 \text{ litres})\)

\[
\text{2nd Water used \times 1000 Litres per day} = \text{Number of people staying in your home}
\]

To get the 2nd water usage per person per day, we take the 2nd water used per day multiply by 1000 litres divided by the number of people staying in your home.

FORMULA \((\text{m}^3 = 1000 \text{ litres})\)

\[
\text{How much \% of water was saved} = \]

Now, we can calculate how much \% of water was saved.
FORMULA \((\text{Im}^3 = 1000 \text{ litres})\)

How much % of water was saved =

\[
\left( \frac{\text{Water Usage Per Person per Day (litres/person/day)}}{\text{Water Usage Per Person per Day (litres/person/day)}} \right) \times 100\%
\]

Take the difference between the 1st usage and 2nd usage over the first usage multiply by 100 percent

FORMULA \((\text{Im}^3 = 1000 \text{ litres})\)

How much % of water was saved =

\[
\left( \frac{\text{Water Usage Per Person per Day (litres/person/day)}}{\text{Water Usage Per Person per Day (litres/person/day)}} \right) \times 100\%
\]

Isn't that simple? Login now & try it out on your own!
Checklist

No. of family members: 

Water meter reading 1: 

Water meter reading 1 Date: 

---

After at least 7 days from the first water meter reading...

Water meter reading 2: 

Water meter reading 2 Date: 

No. of days between 2nd reading and 1st reading: ___ days

Water consumed per day: ___ m³

Per person per day usage: ___ litres/person/day

---

On the day when you take the second water meter reading:

Check for leaks in the house by shutting off all the fittings and watch if the meter is moving:  

Yes  No

Install thimbles in tap fittings and showerheads in the house:  

Yes  No

No. of thimbles installed: 

Practise these good water saving habits...

<table>
<thead>
<tr>
<th>Activity</th>
<th>Yes</th>
<th>No</th>
</tr>
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<tbody>
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After at least 7 days from the 2nd water meter reading...

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
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<tbody>
<tr>
<td>Water meter reading 3:</td>
<td></td>
</tr>
<tr>
<td>Water meter reading 3 Date:</td>
<td></td>
</tr>
<tr>
<td>No. of days between 3rd reading &amp; 2nd reading:</td>
<td>days</td>
</tr>
<tr>
<td>Water consumed per day:</td>
<td>m³</td>
</tr>
<tr>
<td>Per person per day usage:</td>
<td>litres/person/day</td>
</tr>
<tr>
<td>% of water saved:</td>
<td>% saved!</td>
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