5B: WATER USE IN NEW ZEALAND WORKSHEET

Answer the following questions using 5a:

1. Which country has the highest proportion of household water use?

2. Is New Zealand's household water use high or low compared with other countries? Why do you think this is?

3. How much water does the average New Zealander use at home on an average day?

In winter: _____

In summer: _____

4. What is most of the water in homes used for?

5. What do you think 'unaccounted for' means? Why do we need this option?

6. Why is 'outdoor' water use so much greater in summer?

7. When you look at graph two, what obvious ideas come to mind about reducing your water use?

5C: READING THE SCHOOL WATER METER

How to read the meter

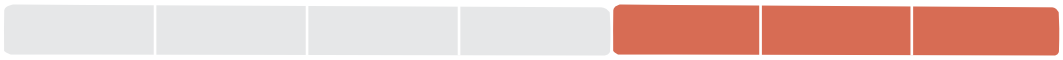
- If your meter looks like the above: The black-on-white digits show the number of **cubic metres** of water used since the meter was installed, in this case 3746 cubic metres.
- The three white-on-red digits show litres, in this case 285 litres (therefore the total reading is equal to 3,746,285 litres).
- Your meter might not have the same white and red back ground. In this case, start at the left to fill in the numbers.
- *If your meter only has two red numbers, start numbering left to right, use the empty grids below to record your school's meter readings first thing in the morning and then again in the afternoon just before you leave school.*

METER READINGS

Date____/____/20____

Morning reading

Afternoon reading

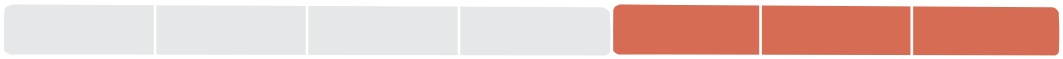


Total water used by our school on day 1: (Afternoon reading – morning reading) = _____

Date____/____/20____

Morning reading

Afternoon reading



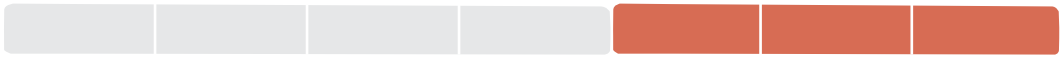
Total water used by our school on day 2: (Afternoon reading – morning reading) = _____

Total water used by our school on day 1: (Afternoon reading – morning reading) = _____

Date____/____/20____

Morning reading

Afternoon reading



Total water used by our school on day 2: (Afternoon reading – morning reading) = _____

AVERAGE WATER USE PER DAY = _____

(Average water use per day = add together each days total water use ÷ number of days recorded)

5D: SCHOOL DAILY WATER USE

Water use	Water used (L) (averages only)		No. of times used a day (average)		Total water used (per person)
Student use					
Drinking					
Drinking fountains	0.5L (500ml)	x		=	
Drink bottles	0.5L (500ml)				
Toilet					
Half flush	3L	x		=	
Full flush	6L				
Urinals	10L per flush				
Hygiene and cleaning					
Washing hands	1L	x		=	
Taps in classroom	10L per minute				
			Total water use per student		
			x number of students	=	
			Total water use: students		
Staff use					
Staffroom					
Staffroom taps	10L per minute	x		=	
Drinking water	2L per person				
Hot water: kettle	2L per jug				
Dishes: in sink	6L				
Dishwasher	30L				
Staff toilets	6L				
			Total water use: staff		
Other					
		x		=	
			Total water used at school per day (total water use: students + total water use: staff + other)		

5E: WATER USE: NOW AND IN THE FUTURE

Part 1: Water Use: What is happening now?

How many litres per person per day do we use at school? (See 5c, 5d)

litres per person per day

What are we already doing to save water?

Can we reduce our water use?

Y/N

If yes, how could we reduce the amount of drinking-quality water that we use?

Part 2: Water Use: What will happen in the future?

Complete the chart for water future three

	Water future 1 Water use increases	Water future 2 No change to water use	Water future 3 Water use decreases
Water conservation	No water conservation	Some water saving	
Using water at school	Water use increases. More water is wasted. No water re-use or rainwater collection.	Water use stays the same. Some water re-use or rainwater collection	
If every school and home did the same...			
Water sources/collection to supply water	Another water source WOULD BE needed soon	Another water source WOULD BE needed in the near future	
Water restrictions	Harsher water restrictions WOULD BE necessary	Harsher water restrictions MAY BE necessary	