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# Treasure Every Drop





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# Water and the Earth





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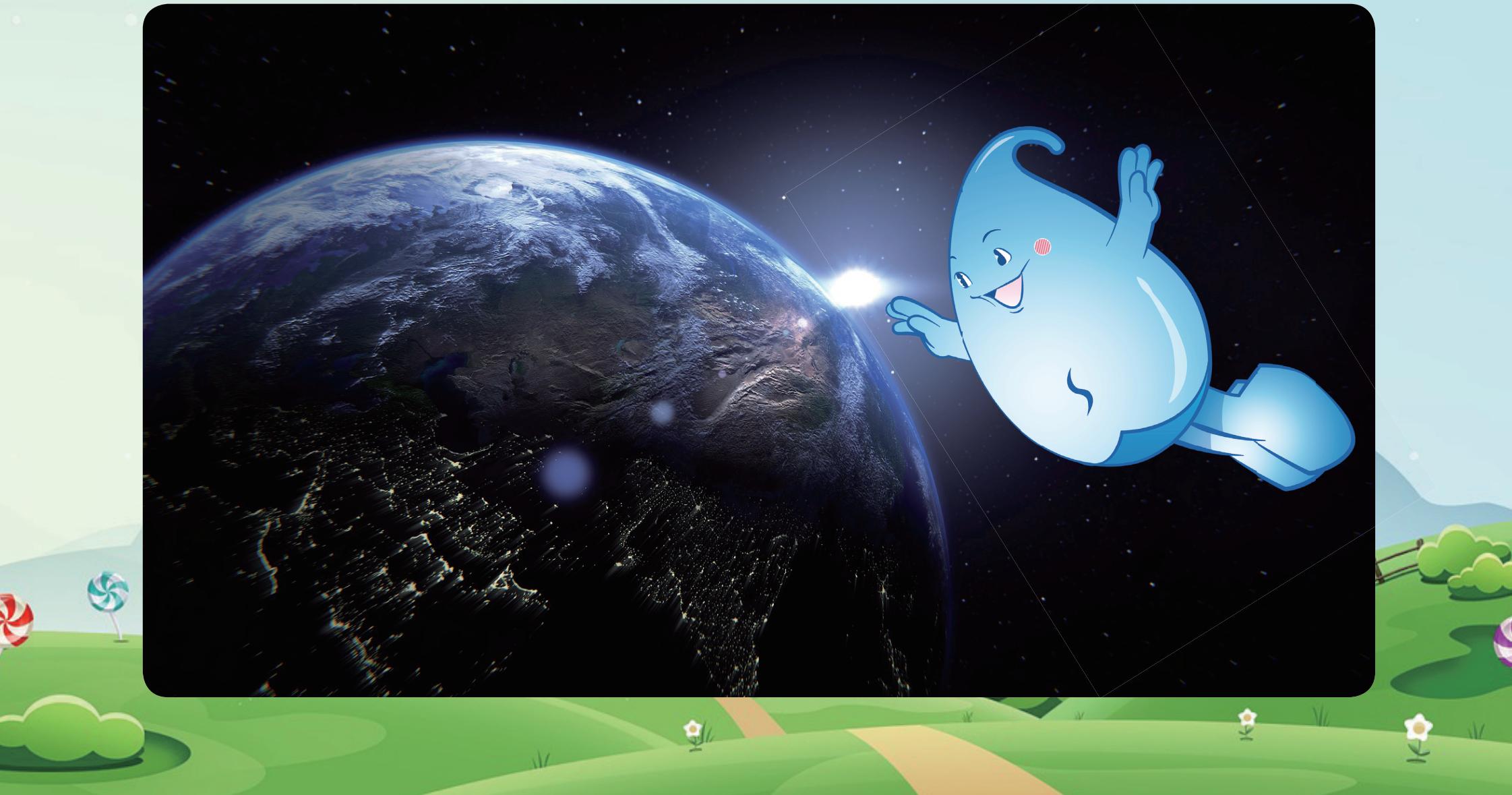


# The Earth - The Blue Planet





# From outer space, the Earth looks blue

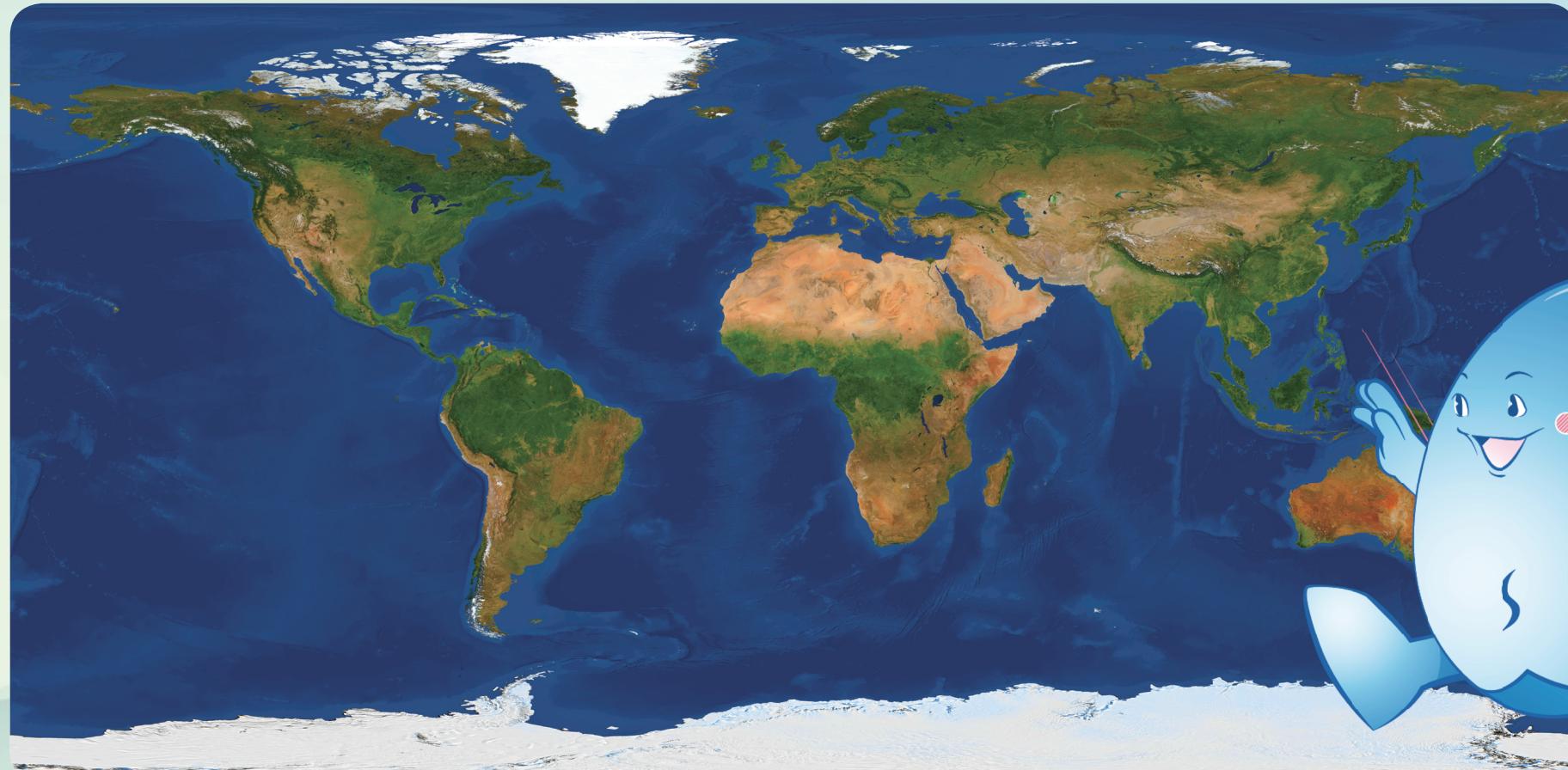




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# Since over 70% of the surface is covered by water

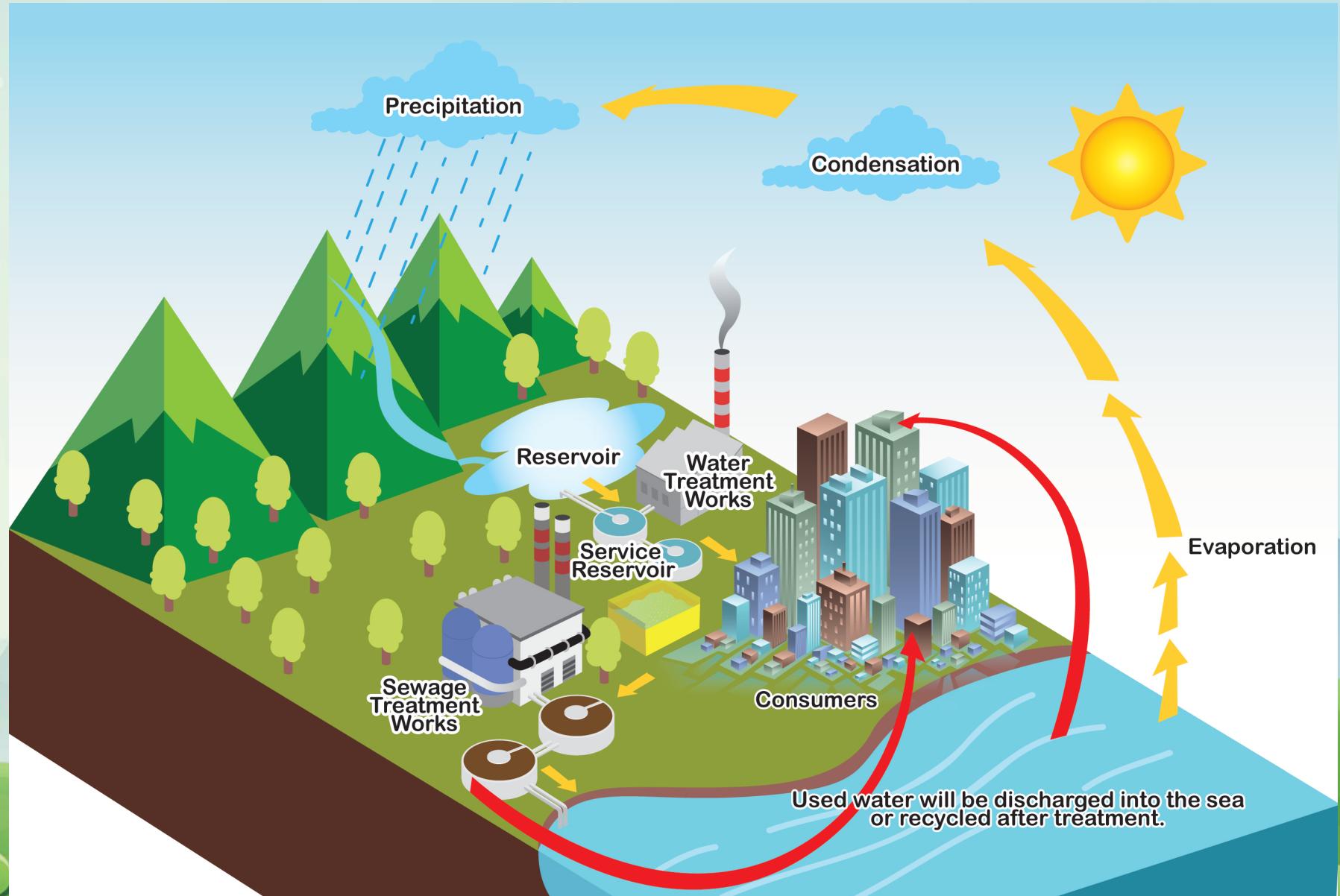




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# Water Cycle





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# Unit of Measuring Water





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# Unit of Measuring Water: Millilitre (mL)

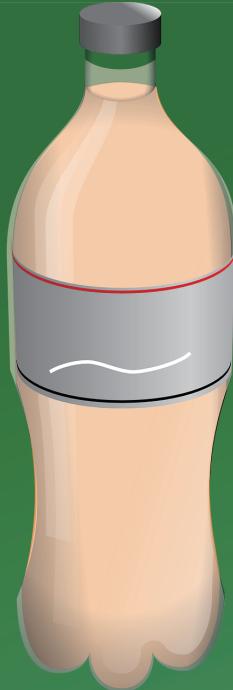


I paper-packed  
drink:  
About 250 mL





# Unit of Measuring Water: Litre (L)



1 L = 1,000 mL

1 large bottle of  
soft drink: About 2 L





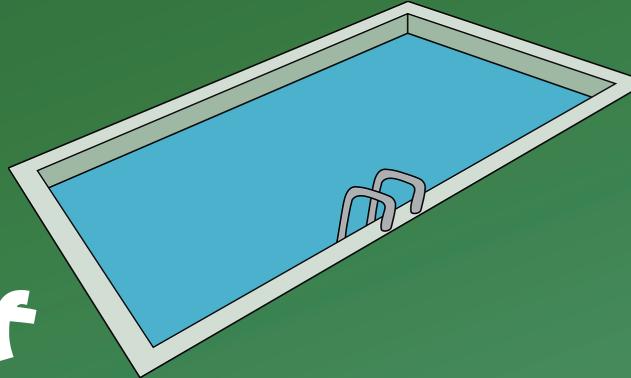
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# Unit of Measuring Water: Cubic metre (m<sup>3</sup>)

1 m<sup>3</sup> =  
1,000 L

The capacity of  
a standard swimming  
pool is around 2,500 m<sup>3</sup>

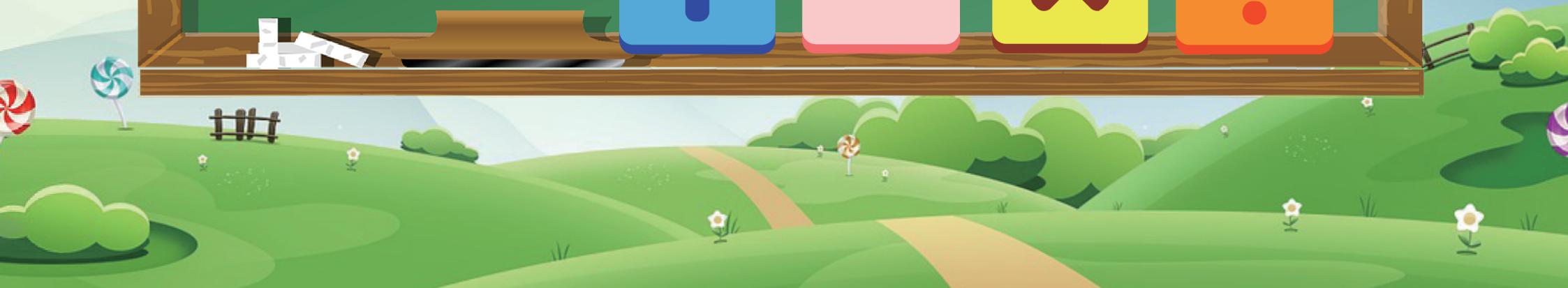




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# The "Arithmetical" Formula





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# The "Arithmetical" Formula





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# The "Arithmetical" Formula

100%  
Global water  
resources





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# The "Arithmetical" Formula



Only fresh water is  
suitable for human  
consumption





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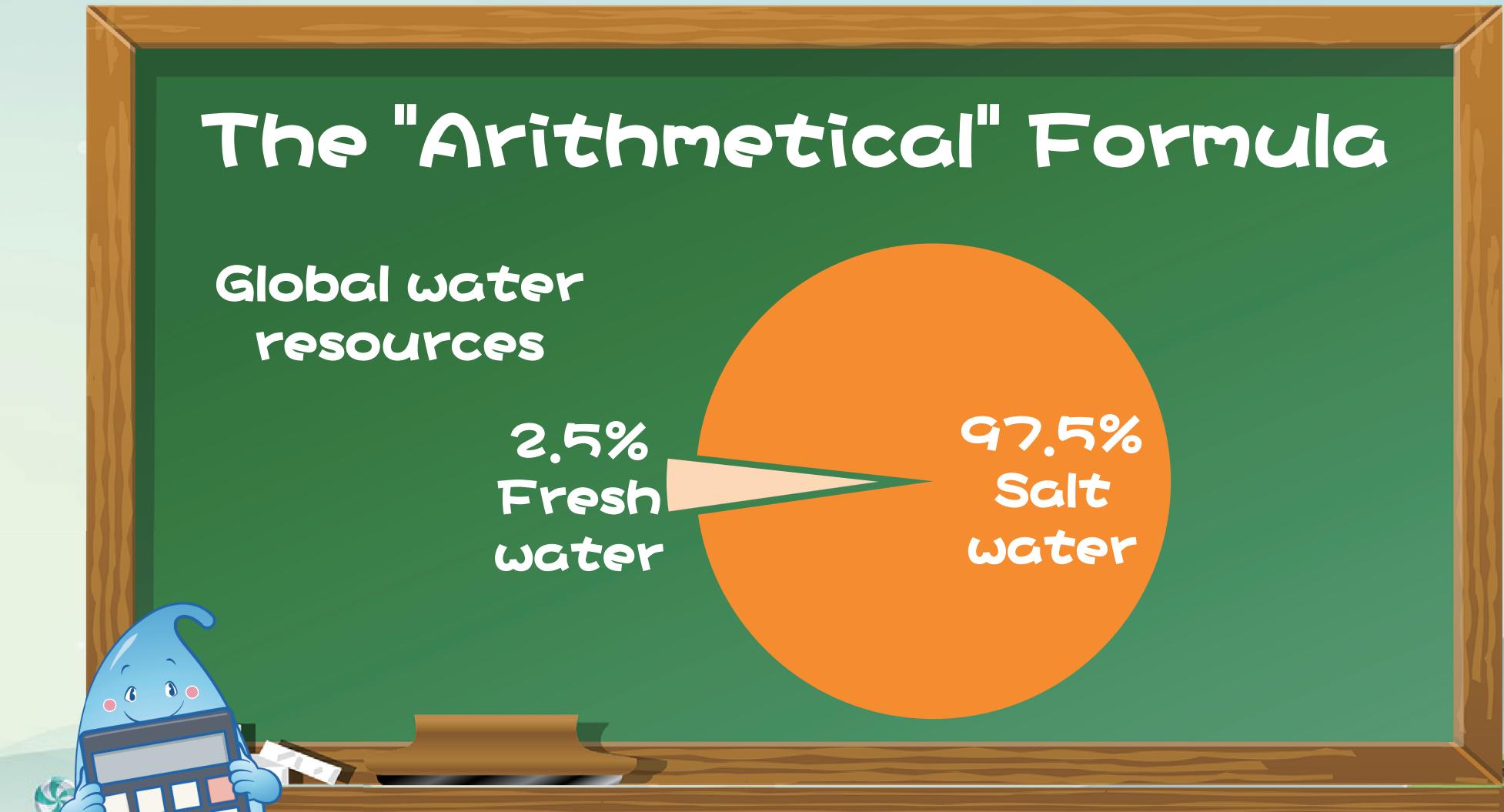


# The "Arithmetical" Formula

Global water  
resources

2.5%  
Fresh  
water

97.5%  
Salt  
water

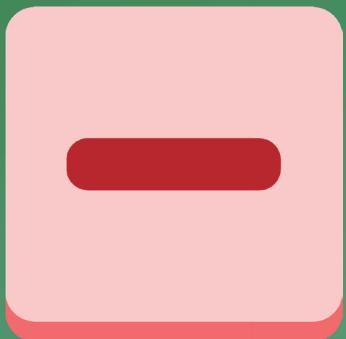




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# The "Arithmetical" Formula



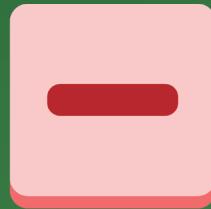


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# The "Arithmetical" Formula

100%  
Water  
Supply



55%  
Domestic  
Uses



45%  
Industrial uses,  
commercial uses  
and government  
establishments, etc.



\*Using Hong Kong as an example





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# The "Arithmetical" Formula

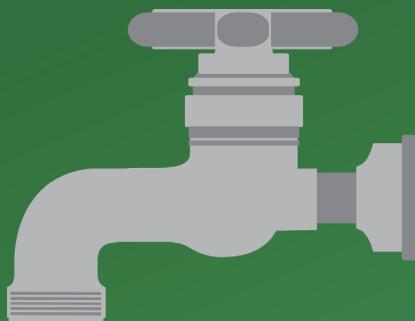




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# The "Arithmetical" Formula



Dripping tap\*  
annual water  
wastage



\*based on one drop per second



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# The "Arithmetical" Formula



4升  
(daily water  
wastage)



365  
days



Annual  
Water Wastage:  
1460升





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# The "Arithmetical" Formula





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# The "Arithmetical" Formula

Average daily water  
consumption per capita





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# The "Arithmetical" Formula

520 L  
(average  
daily water  
consumption of  
a HK family)



4  
family  
members



Average daily water  
consumption per capita:  
130 L



\*based on a 4-member household



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Water scarcity is  
a global threat.  
We need to  
save water!





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**Snow capping Mount  
Kilimanjaro in Africa is  
disappearing**



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Friday, July 26, 2019, 16:43

## Thailand faces worst drought in decade

Friday, July 26, 2019, 16:43

By Xinhua



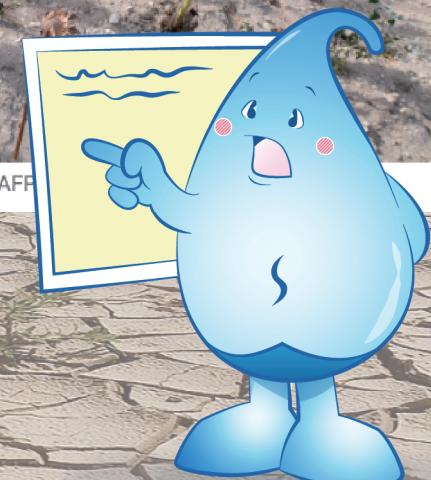
Source: China Daily

Drought in France: One third of the country is now in a "crisis situation"



Drought hits sunflower fields in France. Photo credit: AFP

Source: The Local





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**Clean drinking  
fresh water is  
very precious.  
Let's save  
water in our  
daily lives!**





# Water and Hong Kong





# Where does Hong Kong's water supply come from?

- **Local yield:**  
**20-30% comes from local rainfall**
- **Dongjiang water:**  
**70-80% from imported Dongjiang water**  
**(Through a 60-km supply network; HK shares water with other cities in China)**





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# Where does Hong Kong's water supply come from?

- Hong Kong imports 60 million cubic metres of Dongjiang water per month on average (which could fill around 24,000 standard swimming pools)
- Water scarcity is a global threat. We need to save water!





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# When there is not enough fresh water.....



**Water rationing :  
from early 60's to early  
80's**

**\* For the most serious water  
rationing: water was supplied  
once every 4 days,  
4 hours each time**

**Clean drinking fresh  
water is very precious.  
Let's save water in our  
daily lives!**





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# Water and Us





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# Water is essential to human

- Water makes up around 70% of the human body!
- Water is the origin of life!





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# Other household usages for water include:



- Cooking
- Showering/ face washing
- Watering plants/ filling aquariums
- Cleaning
- Flushing toilets
- Other uses



Clean drinking fresh water is very precious. Let's save water in our daily lives!



# Total Water Management (TWM)



**"Containing Demand,  
Strengthening Supply"**

- Emphasis on containing the growth of water demand through water conservation
- Strengthening the management of water supply



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# What can I do to save water?



- Take a shower instead of a bath
- Shorten shower time



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# What can I do to save water?



- **Wash dishes in a basin rather than under running water**



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# What can I do to save water?



- Run washing machines with a full load





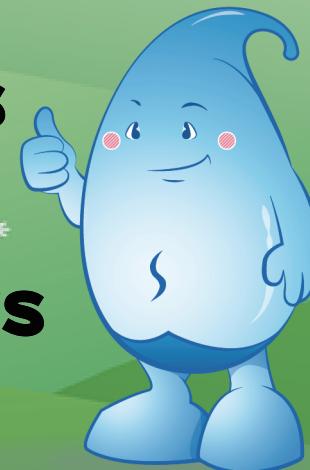
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# What can I do to save water?



- Reuse the water used for washing fruits and vegetables to water your plants





# What can I do to save water?



- Help your parents to check leakage
- Ask your parents to fix dripping taps immediately



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# What can I do to save water?



Water saving  
taps



Dual flushing  
cisterns



Water saving  
showerheads



Water saving  
washing  
machines

- Use water saving devices



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# What can I do to save water?

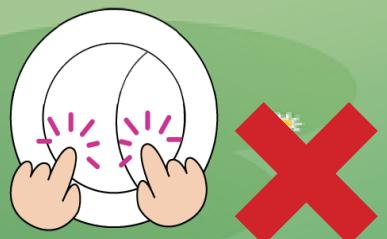
- Right way to flush the toilet



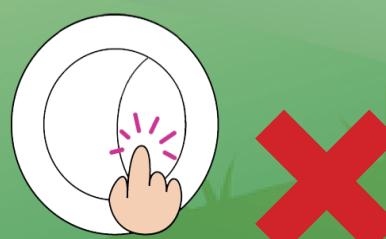
Push the "small flush" button for flushing wee-wee



Push the "big flush" button for flushing poo-poo



Do not push two buttons together

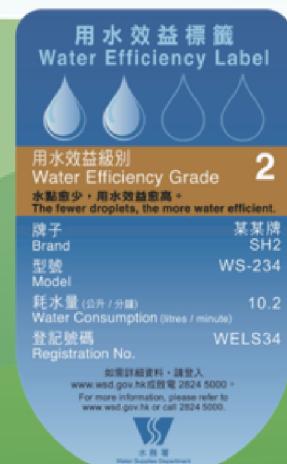


Do not flush unnecessarily



# Water Efficiency Labelling Scheme

- Indicate the level of water consumption and efficiency rating of plumbing fixtures and appliances
- Water efficiency label has 4 grades. Grade 1 is the most water-efficient!



# Water tariff - How to read the water meter?

Lid

Reading

Meter No.



- The unit of water meter is  $m^3$
- Readings of domestic water meters contain 8 digits (4 digits before the decimal point and 4 after the decimal point)
- The digits before and after the decimal point are indicated by white and red background respectively





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# Water tariff - How to read the water meter?

Decimal point “.”

Thousands

Hundreds

Tens

Units

Hundredths

Tenths

Ten-  
Thousands

Thousands



Reading: 10.8770 m<sup>3</sup>



# How to calculate the water tariff?

Domestic water tariff is billed at 4-month intervals

Fourth Tier  
Consumption  
exceeding 62 m<sup>3</sup>

HK\$9.05  
per cubic metre

Third Tier  
Next 19 m<sup>3</sup>

HK\$6.45  
per cubic metre

Second Tier  
Next 31 m<sup>3</sup>

HK\$4.16  
per cubic metre

First Tier  
First 12 m<sup>3</sup>

Free





# How to calculate the water tariff?

**\*A four-member family water tariff**

**Consumption period: from 1 Aug to 30 Nov**

**Total water consumption: 100 m<sup>3</sup>**

Tier	Water Consumption (m <sup>3</sup> )	Rate (HK\$)	Water Tariff (HK\$)
First	12	0	0
Second	31	4.16	128.96
Third	19	6.45	122.55
Fourth	Remaining = 38	9.05	343.90
Total	100		595.41

**Water tariff = HK\$595.41**



# Water Bill

Average  
daily water  
consumption

Details of  
water charges  
and sewage  
charges

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付款通知書

陳大文  
告士打道888號  
灣仔

用户編號：8366212XXXX

上次繳款日期 27/01/2005	上次繳款金額 \$800.00	現存接金款額 \$400.00	爭議金額 \$0.00	分期付款金額 \$0.00
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收費說明：  
用水樓宇地址  
告士打道888號  
灣仔

現有水錶編號：ABC98888888

每日平均耗水量  
立方米

0	1	2	3	4	5	
0403E	12/04	08/04	04/04	12/03	08/03	04/03

抄表月份

耗水量  
126日  
115 立方米

每日平均耗水量  
0.913 立方米

上期未繳款額前  
水費  
21/12/2004 - 26/04/2005  
12.43 立方米 @ \$0.00  
32.111 立方米 @ \$4.16  
19.681 立方米 @ \$6.45  
50.778 立方米 @ \$9.05  
小計  
\$1.01  
排污費  
1/12/2004 - 26/04/2005  
0.00  
水費總額  
133.58  
排污費  
126.94  
總額  
459.54  
小計  
\$720.00

123.08  
123.08  
844.15  
0.05CR  
844.10

上述用水樓宇的帳單附註：  
本帳單所示耗水量，是根據貴帳戶或你所屬客戶類別以往耗水量的記錄作出估計的。

有關此帳戶的帳單附註：  
 • 如閣下使用繳費靈，銀行自動櫃員機，或網上繳費，而需要選擇帳單類別的話，請選擇帳單類別01 (WATER & SEWAGE CHARGES) 以繳交各種費用，包括水費按金。  
 • 由於實施全新的發單系統，貴戶的用戶編號已由(XX-12212463-601-4)轉為(8366212XXXX)。不便之處，敬請原諒。

如以支票付款，請把本郵寄付款回條連同支票寄上

發出日期：06/05/2005

有關款額如未能在上述日期繳付，本署可加徵附加費。

繳款單編號 8366212XXXX	應繳總額 \$844.10	在計日期後加 收5%附加費 26/05/2005	應繳款額 (連5%附加費) \$886.25
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870XXX13100000000000000010420058366212XXXX0

編號：000170

CRC131

總數2頁的第1頁



# Conclusion

**The facts...**

- Water scarcity is a global threat
- The source of water in Hong Kong mainly comes from the Mainland China, which is very precious
- Water is the origin of life

**Therefore...**

- We need to **save water**