

"RECYCLE IT RIGHT" GUIDE

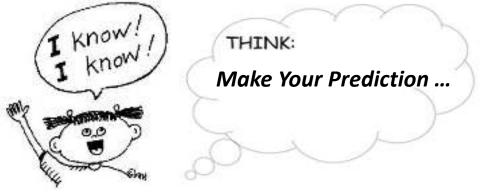


RECYCLE RIGHT



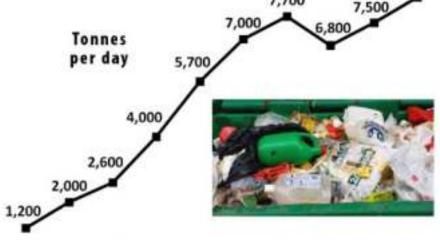


Understand Why We Need to Recycle



- 1. How much waste do you think Singapore had generated in 2019? (1 tonne = 1000 kg)
 - (1) 7,234,000 tonnes
 - (2) 7,670,000 tonnes
 - (3) 7,700,000 tonnes
 - (4) 7,810,000 tonnes





In 2015, Singapore disposed 8,284,000 kg of waste a day!



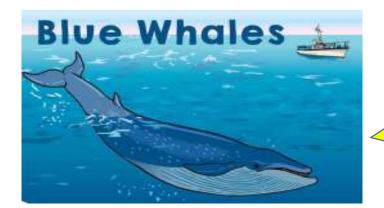
1970 1975 1980 1985 1990 1995 2000 2005 2010 2015

Although the amount of waste generated has been decreasing from 2018 to 2019,

Voyou know Singapore

2018

- generated 7.7 million tonnes of generated 7.234 solid waste tonnes of solid waste
- 2019
- million
- amount of waste is equivalent amount of waste is equivalent to 72,300 BLUE WHALES



to 77,000 BLUE WHALES

..... we can still continue to do MORE to reduce wastage and strive towards a "Zero Waste" lifestyle.

If we continue to throw away so much waste in Singapore, we will need to build

1 incineration plant every 7-10 years



At our current rate of waste disposal, Singapore's only landfill, Semakau Landfill, will run out of space by 2035

We can help to protect our environment, save resources, and extend the lifespan of our landfill by reducing and recycling our waste!



Why do we need to Recycle?

Recycling saves Resources

When we recycle, used materials are converted into new products, reducing the need to consume natural resources.

Recycling helps conserve important raw materials and protects natural habitats for the future.

Recycling saves Energy

Using recycled materials in the making process, consumes less energy than that required to produce the new products from raw materials.





Recycling reduces Incineration

Our ONLY landfill, Pulau Sumakau is anticipated to fill up by 2035. To prolong its lifespan, we need to cut down the amount of waste going into the incineration (burning) plants. Lesser air pollution as lesser waste is sent for incineration.

Learn How to Recycle at HOME and in SCHOOL



Use only what you need. Minimise the use of singleuse plastics by using your own reusable water bottles, containers and cutlery.

Reduce

REMEMBER, always **REDUCE** first, then **REUSE**, and finally **RECYCLE**, before you decide to throw away your item(s)!

Give old items

a new lease of

life by

reusing,

donating

and/or

upcycling

them for new

purposes with

new value.

How do we lead a "Zero Waste" "trash" into "treasure" by putting your recyclables into the blue recycling bins. These recyclables will be made into new products, saving precious resources!

Æ Ħ 田 at HOME



Leading a "Zero Waste" lifestyle at HOME and in SCHOOL



1. Set up a space at home for your recycling bin or bag to collect paper, plastics, metal and glass for recycling.



3. When your recycling bin or bag is full, bring it to the blue recycling bin near your house and deposit the recyclables.



2. Empty recyclable containers of any content. Rinse them if necessary. Place them into your recycling bin or bag.



4. Do not put any food and liquid waste, tissue, ceramics, light bulbs, batteries or bulky items into the recycling bin.

Do Remember to bring your Home Recyclables to School for our Weekly Recycling as our school participates in the yearly "*GO GREEN*" programme organised by SembWaste Pte Ltd (our long-time working partner for waste disposal).



"Repair - a MEWR NDP 2019 short film"

Singing the national anthem, reciting the pledge, watching and participating in the National Day Parade — these are all part of our shared experiences as Singaporeans.

How far would you go to retrieve such a precious memory? And how rewarding such a journey can turn out to be.

This National Day, watch grandfather and grandson, Osman and Mikhail, as they recapture a lost memory through a simple repair.

#TowardsZeroWaste #NDP2019

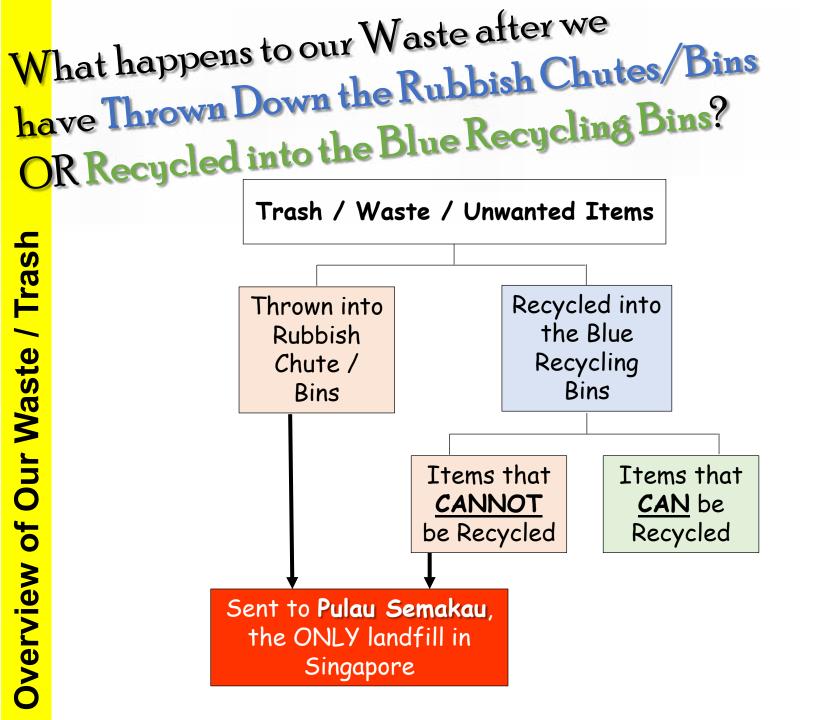
Presented by | Ministry of the Environment and Water Resources Presented by | The Creative Room Pte Ltd

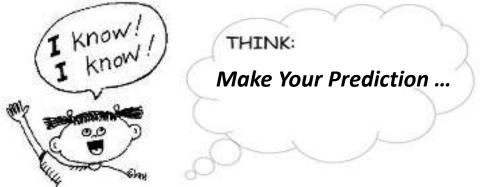


Learn What Happens to the Waste :

* thrown down the Rubbish Chutes/Bins

* the Recyclables and Non-Recycled Waste from the Blue Recycling Bins





- 2. Where do you think the Waste that you have recycled in the Blue Recycling Bins go to?
- 3. Where do you think the Waste that <u>CAN be Recycled</u> in the Blue Recycling Bins go to?
- 4. Where do you think the Waste that <u>CANNOT be</u> <u>recycled</u> in the Blue Recycling Bins go to?

What happens to our waste after we have Recycled into the Blue Recycling Bins? Bins Trash / Waste / Unwanted Items **Blue Recycling Recycled** into the blue Recycling Bins https://www.youtube.com /watch?v=1eHi2w0ixGo "Follow The Trash" Items that **Our Waste/Trash in the** Items that CAN be CANNOT be Recycled Recycled

What happens to the Recyclables in the Blue Recycling Bins after Collection



What happens to the Recyclables in the Blue Recycling Bins after Collection



At the facility, recyclables are sorted by a semiautomated process into paper, plastics, metal and glass



Recyclables are transported by the Recycling Trucks to the Material Recovery Facility.







The Recyclables are placed on conveyor belts for manual sorting according to material types; paper, plastic, metal, glass etc.







The sorted materials are bundled and exported for overseas recycling OR transported to local recycling facilities.



5. Where do you think the (i) Waste / Trash that you have thrown down the Rubbish Chutes/Bins and (ii) the Unrecycled Waste in the Blue Recycling Bins go to?

6. What is Sumakau Landfill about? What is this place used for?

What happens to our Waste after we have Thrown Down the Rubbish Chutes/Bins and Non-recycled Waste in the Blue Recycling Bins?

- The collection crew go around the island, in the waste collection trucks to clear waste from the rubbish chute/bins.
- After collecting the waste, the waste will be sent to the Incineration Plants (also known as the Waste-to-Energy Plants) for burning.



Trucks that do not have the 3R recycling logo on the trucks, collect the waste from the rubbish chutes/bins

4 Incineration (Waste-to-Energy) Plants in Singapore

- Tuas Incineration Plant (TIP)
- Tuas South Incineration Plant (TSIP),
- Senoko Waste-to-Energy Plant (SWTE)
- Keppel Seghers Tuas Waste-To-Energy Plant (KSTP)
- · as well as an offshore landfill, Semakau Landfill.



What happens to our Waste after we have

Thrown Down the Rubbish Chutes/Bins

and Non-recycled Waste in the Blue Recycling Bins?

- By incinerating (burning) the solid waste, the volume of the waste collected can be reduced by 90%.
- After incinerating the waste, the remaining ash as well as the nonincinerated and non-recycled waste sorted out from the Blue Recycling Bins, will then be transported to Pulau Semakau, Singapore's ONLY offshore landfill, in large barges.
- At Pulau Semakau, the ash (with rainfall) is treated at an onsite wastewater treatment plant to meet the **Trade Effluent Discharge Standard** before being discharged into the open sea.



The waste after incineration, becomes ash.



The ash being treated at Semakau before discharged as water into the open sea.



What happens to our Waste after we have Thrown Down the Rubbish Chute/Bins and Non-recycled Waste in the Blue Recycling Bins?

Bins **Blue Recycling** Our Waste/Trash in the Rubbish Chutes/Bins Non-recycled Waste from the

U <u>https://www.youtube.com</u> <u>/watch?v=kuDSxswD184</u> "Can Singapore's Landfill Last Forever?"

<u>https://www.todayonline.com/</u> <u>features/trash-talk-no-time-</u> <u>waste-dealing-singapores-</u> <u>mounting-trash-problem</u> click on the video ... "Trash Talk"





Find Out What CAN and CANNOT be Recycled







Plastic bags and bagged recycling Food wrappers Nappies

Light globes

Polystyrene Pyrex

Batteries

Quiz (How much have you learnt?)

-

READY FOR A QUIZ?





 If we do not reduce the amount of waste we generate, when will Sumakau Landfill run out of space?

(1) 2025

- (2) 2030
- (3) 2035

(4) 2040



- 2. Which is a way of **reducing FOOD WASTE** in school?
 - (1) Bring your own reusable bag
 - (2) Set up a recycling corner in the classroom
 - (3) Order and buy only what you can finish eating
 - (4) Share the unfinished food in your plate with your friend(s)



3. Which is a way of **reducing DISPOSABLE WASTE** in school?

- (1) Request for paper bags instead of plastic bags
- (2) Donate your bottled drinks bottle(s) after drinking
- (3) Buy bottled mineral water instead of bottled sweetened drinks
- (4) Bring your own container to pack canteen food home after school



4. Can VITAGEN / YAKULT bottles be recycled?

(1) Can(2) Cannot





5. Can soiled **DIAPERS** be recycled?

(1) Can(2) Cannot







6. Can POLYSTYRENE FOAM PRODUCTS (like styrofoam boxes) be recycled?

(1) Can(2) Cannot









7. Can PLASTIC BAGS be recycled?

(1) Can(2) Cannot



Do you know why Plastic Bags cannot be Recycled?





- When plastic bags are recycled into the Blue Recycling Bins, they will tangle and get stuck in the sorting equipment / conveyor belts at the Material Recovery Facility. These <u>plastic</u> <u>bags will have to be detangled manually by people</u>.
- Not all plastic is biodegradable (i.e. cannot be completely decomposed).



8. Can **TOYS** be recycled?

(1) Can(2) Cannot











9. Can SHAMPOO / SHOWER BOTTLES be recycled?

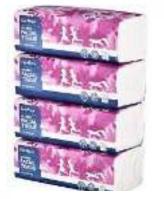
(1) Can(2) Cannot





10. Can PAPER (like tissue paper, toilet paper, kitchen towel, disposable wooden chopsticks) be recycled?

(1) Can(2) Cannot









Riverlites' Way of Living towards ZERO WASTE

Weekly Recycling













RIVERVALE

Primary School



Riverlites' Way of Living towards ZERO WASTE

Our OUTREACH



Outreach about Conservation of Wild Life (Clown Fish) within School



Outreach to the Community about Food Waste Recycling + 3R













Riverlites' Way of Living towards ZERO WASTE

Our OUTREACH



Outreach to the Community about Upcycling



Student Leaders' Outreach to the Community about Water-saving + 3R



Outreach to the K2 Children on Reduce, Reuse and Recycle





Outreach to Teachers and Students from Shanghai about Conservation of Wild Life (Seahorse) + Upcycling

RIVERVALE

Primary School





- Wear your **mask(s)** while recycling at the blue recycling bins
- Keep a safe distance from one another while queuing to recycle
- Wash your hands after recycling and/or throwing the waste into the rubbish chute(s)/bin(s)

