





Hi! I am Nurlatifah



Studied to be a Chemical Analyst since high school



Actively involved in international activities as a volunteer during my bachelor degree











PLASTIC



Let's discuss about...



What can we do about plastic pollution?





What is ocean plastic pollution?



What is plastics and why do we use them?





Let's discuss about...



What can we do about plastic pollution?



What is ocean plastic pollution?



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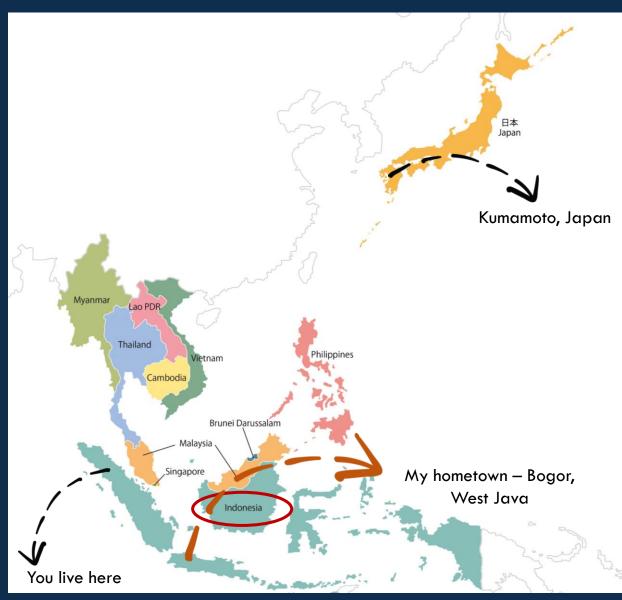
Introduction of ASEAN-Hiroshima Eco-School Project



Association of Southeast Asian Nations

10 countries come together and collaborate for better future







ASEAN-JAPAN CENTRE

ASEAN-Hiroshima Eco-School Project





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2020

22 young leaders from ASEAN and Japan came together to create a written promise about ocean plastic waste



2021

ASEAN – Hiroshima Eco School project

Conducting lectures about plastic pollution for elementary and high school students in ASEAN and Japan

Let's discuss about...



What can we do about plastic pollution?



What is ocean plastic pollutions



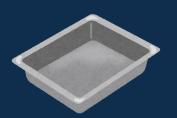
What is plastics and why do we use them?















What is PLASTIC?

A thing made by human that is very strong

We can shape it to many shapes and colors!





Not transferring electricity or attracting magnet





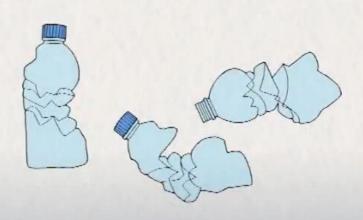




· But can melt if heated



How to make plastics?



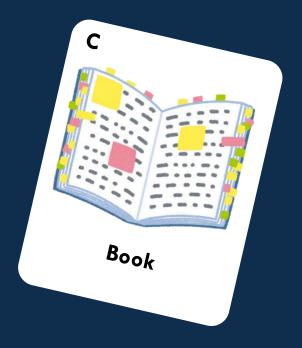


Which one is plastic?

Please answer "A", "B", or "C" in the chat box!











Which one is plastic?

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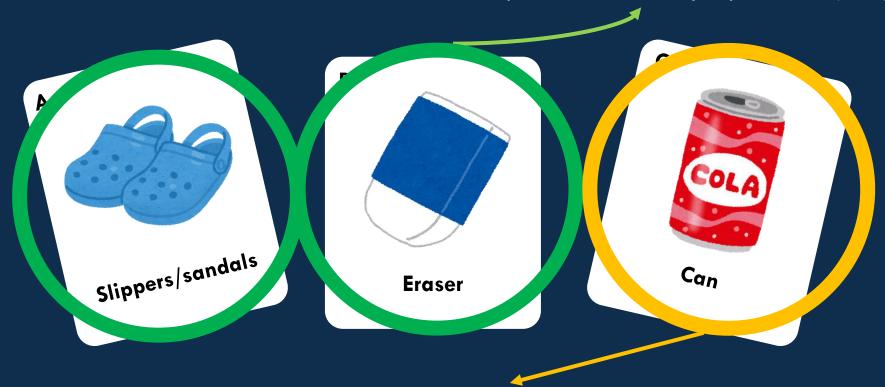




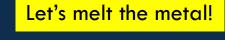
Which one is plastic?

Please answer "A", "B", or "C" in the chat box!

Soft-elastic plastic made of Polyvinyl chloride (PVC)



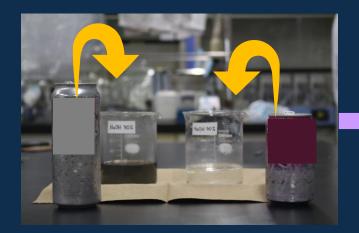
Consists of: metal & plastic



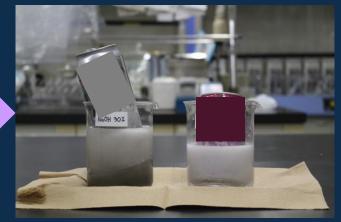




Removing metal from can

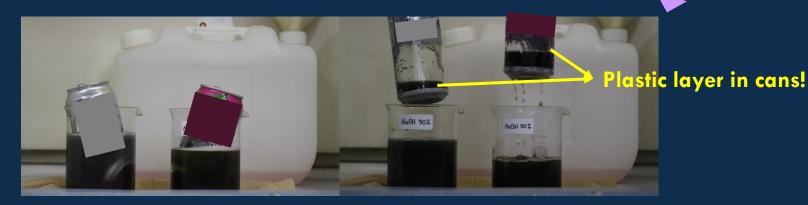


2 cans and NaOH 30% solution



Metal is dissolved to NaOH solution (1.5 hours)

*NaOH or Sodium Hydroxide is a chemical used to dissolve/melt aluminum



After 1.5 hours



Plastic layer(part) in can









Light/Ringan/軽い (かるい) Convenient/Mudah digunakan/便利(べんり)

Shopping

Why we use plastics?







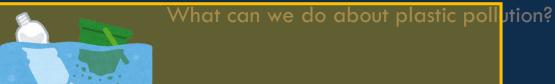


What are the type of plastic?



Let's discuss about...





What is ocean plastic pollution?



What is plastics and why do we use them?









My plastic bag

created by Iuliia Kocherova pictured by Tatyana Fominykh

My plastic bag
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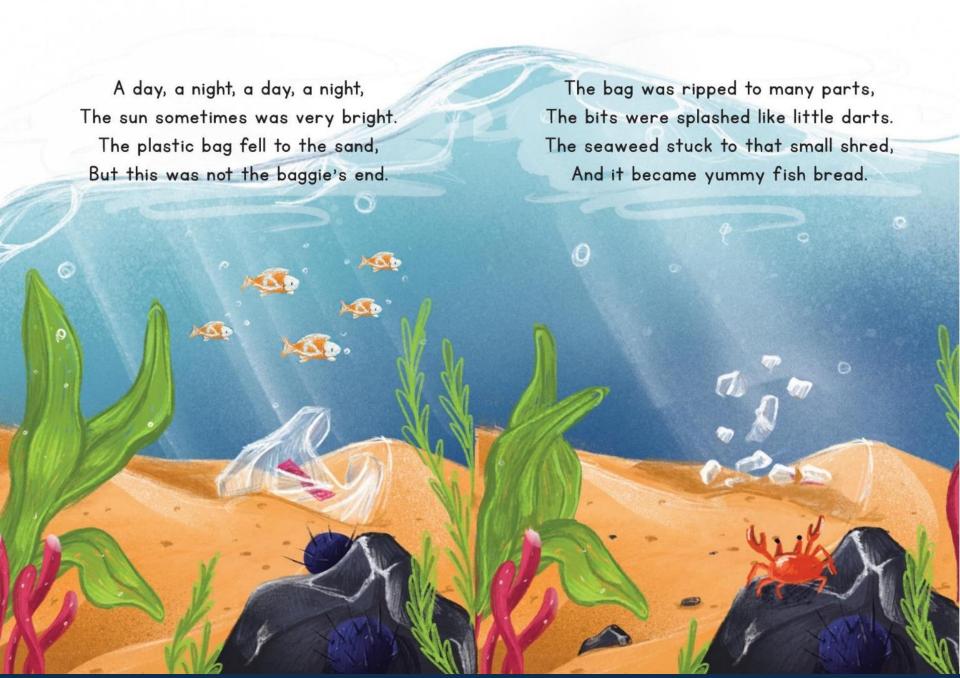


It dived down to the sea,
For no one but the fish to see.
The fish were swimming all around,

"What's this? What's this? What's this we've found?"

It didn't move, it didn't breathe,
It didn't have a mouth or teeth.
The seaweed kept the bag inside,
The waves they helped to hold it tight.







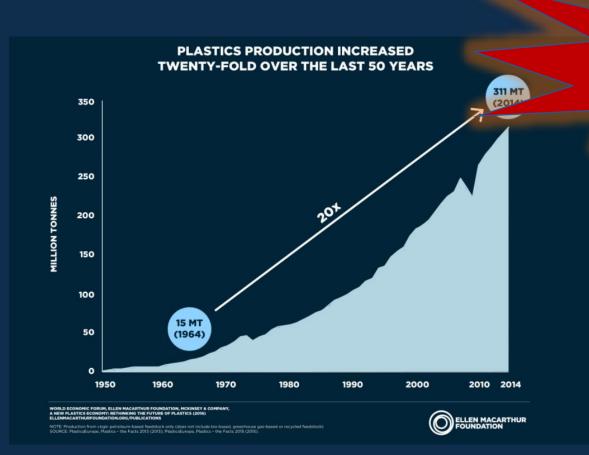


Source: https://youtu.be/hKWrKD2jiUY



World plastic production

300,000,000 tons



300 million tons of plastic every year

Source: Ellen MacAthur Foundation (2016). The new plastics economy: Rethinking the future of plastics, available at: https://ellenmacarthurfoundation.org/the-new-plastics-economy-rethinking-the-future-of-plastics

Photo: Animative, available at: https://giphy.com/gifs/animative-animation-cartoon-dJezVlwfVulTykjRQi



Plastic waste flows to the ocean

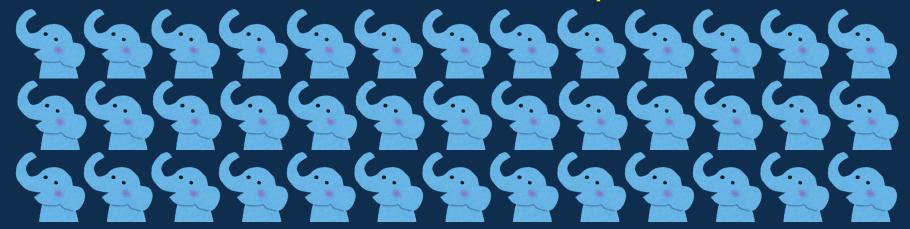


8 million tons of plastic waste are flowed to the ocean every year



Weight of elephant: 5-6 tons

8 million tons = $\pm 1,400,000$ elephants



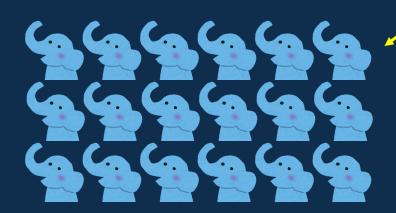


Where does our plastic waste go?





3.2 million tons of plastic waste in Indonesia enters the ocean



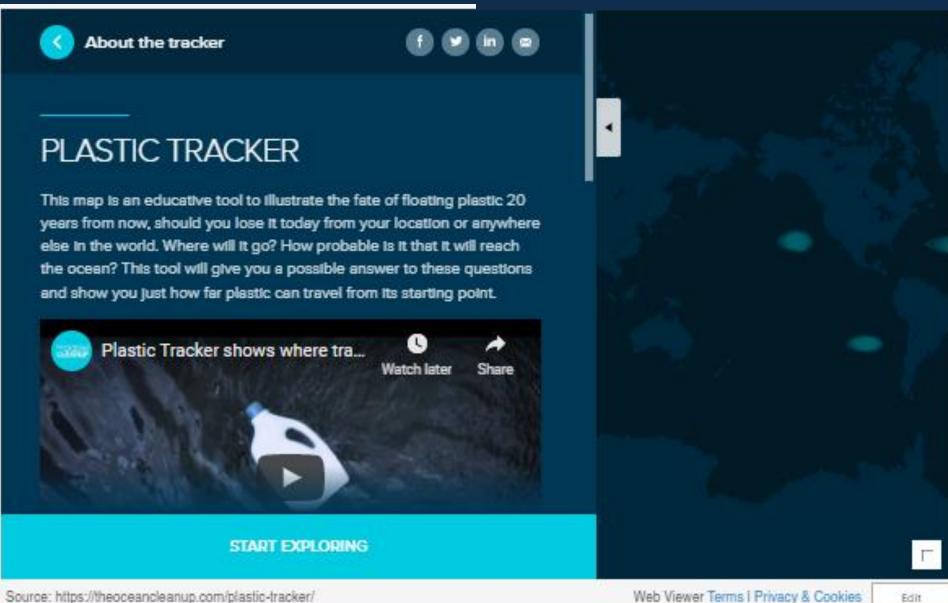
3.2 million tons = 540,000 of elephants enter the ocean



Where does our plastic waste go?



Edit



Let's discuss about...



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Project

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& ASEAN-JAPAN CENTRE 4



	4				2		2	
	Plastic Bag	2	4 Dr	odi	Jcec	1 2	4	r
	Pleste Bottle		Ρι	oat		<i>1</i>		
How many did	Food Tray	1			1	1	3	
you use plastic?	Plantic Curliny							



^{*}Note: Can and Boxed Beverage are usually coated with plastic polymer (i.e. PET or Epoxy resin)



I produced 26 plastic waste in 5 days





















3R Reuse, Reduce, Recycle









Reuse

Use again plastic

finds new ways to use things that should be thrown away

Reduce

Use less plastic in our daily life

Decrease the amount of trash we generate

Recycle

Turn something old or trash into something new and useful









Reuse

Use again plastic

finds new ways to use things that should be thrown away



Ecobrick

A brick that made of plastic bottle filled with ± 500 gram plastic waste







Use less plastic in our daily life

Decrease the amount of trash we generate







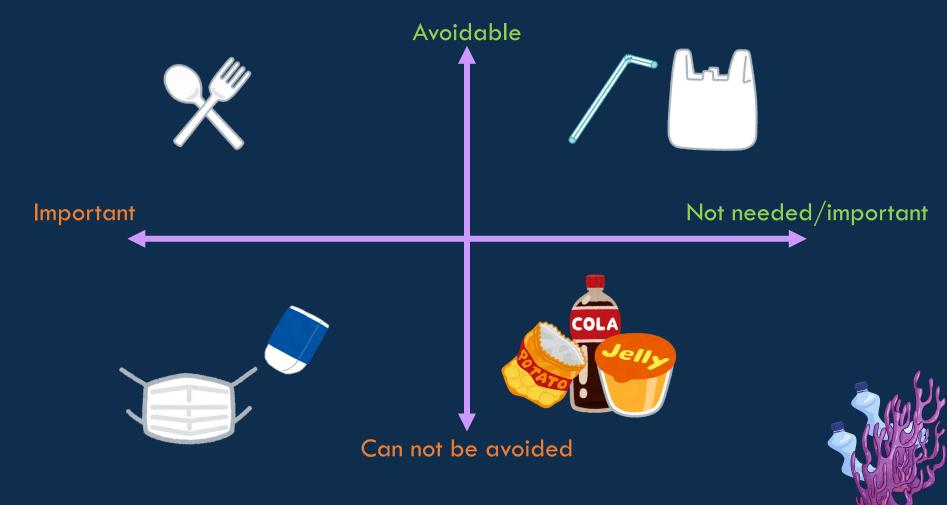






Reduce

Use less plastic in our daily life
Decrease the amount of trash we generate



Recycle







Recycle

Turn something old or trash into something new and useful





Produce microplastics (very small plastics) when washed

Now you know that...



High amount plastic and plastic waste are produced and used everyday



8 million tons = as heavy as 1,400,000 of elephants plastic waste entered the ocean every year

This makes our fishes are in danger



Everyone can make a change!

Be aware of plastic waste you generate!

Remember 3R! Reuse, Reduce, Recycle





Let's take action!



