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## DaHITIONG

These words are often used when talking about recycling

Recyclable materials are items that can go in your recycling bin
Litter is items of rubbish left in an open or public place
Rubbish refers to unwanted items that cannot be recycled or composted
Kerbside collection starts by placing your bins at the front of your house
Resource recovery saves useful resources from going to landfill
MRF or material recovery facility is where accepted recyclables are sorted and separated for recycling

Contamination are items that do not belong in a bin


Landfill is where rubbish is buried

For more information on recycling you can visit www.visy.com.au/recycling/education

[^0]

Recycling is a great way for us to do something good for the environment.
We come in contact with recyclables each and every day so it's important to know how to get recycling right. We can recycle at school, home and at work and if we can teach others how to get it right, we can have a really positive impact on the environment.

## RECYCLING TIPS!

Keep a recycling checklist in the house which tells you which items belong in the recycling bin.


Save paper by writing on the back of each sheet before you use a new piece of paper.


Remember to collect your recyclables in a bin without using a plastic bag.


Always put used paper in the recycling bin.


In this book we use these icons and colours to represent each recycling type.


Aluminium


Cardboard


Glass


Plastics


Steel

## SMART GHOPPIIG

Choose items at the supermarket that are packaged using recyclable materials

# WHY IS RECYCLING Important? 

The choices we make today will have a big impact on the world we live
 in so it's up to us to recycle right and reduce the amount of waste we create.

Recycling helps protect our environment by creating new products without having to remove natural resources from the earth. By recycling more we are able to reduce the amount of waste we send to landfill. Landfills create a toxic gas called methane which damages our ozone layer.

## RECYCLIC REDUCES THE NEED FOR LADFFLLS

The less waste sent to landfill reduces the amount of methane produced in the landfill.


## RECOLNC PROIECIS OUR ENTRONMENL

If we do not recycle enough at home and at school, these are the natural resources we must take from the earth to make new products:


Paper and cardboard is made from trees


Plastics are made from crude oil


Apart from trees, all these raw materials come from 'non-renewable' resources. This means the resource is used up faster than it can be made by nature and once it is all used up, there is no more available.


Steel is made from iron ore


Glass is made from sand, limestone and soda ash

# RESOURCE RECOUERY in Monash 



In Monash, all households are provided with a recycling (yellow) bin, a food and garden (green) bin and rubbish (red) bin. The items from the recycling bin and food and garden bin will be reused - it's called 'Resource Recovery'.


## What goes in your recycling bin?



Paper and cardboard are such a big part of our households. You can recycle cardboard and paper found in the kitchen, bathroom and laundry.


## DID YOU KNOH?

You don't need to remove sticky tape from boxes when you put out for recycling as it comes off when the cardboard is washed.

Wire bound books are also recyclable.


## DO YOU REUSE PAPER IN YOUR CLASSROOM?



## ETEN PAPER TAKEAWIY BAC ARE RECYCLABLE

## What goes in your recycling bin?



Plastics are such a big part of our households. You can recycle plastic bottles and containers found in the kitchen, bathroom and laundry.


## DID YOU KNON?



Even 'hand pump' products can be recycled!

You can keep lids on plastic bottles as it's the best way for them to be recycled.
abels can be left on too.

PLAGTIC BOTTLES CAN BE MADE INTO NEW BOTTLES. HERE'S HOW:


## 2. Pelletising

The plastic flakes are heated to meling point and squeezed through
3. Bottle forming

The pellets are heated and moulded into a new bottle.
an extruder to make pellets.


These symbols can be found on most plastic items.
The number in the middle of the triangle tells us what type of plastic it is. It does not tell us whether it can be recycled or not.

These plastic products do not belong in your recycling bin


Soft plastic items do not go into the recycling bin.
Soft plastics can jam the machinery in the recycling sorting process.


Bread bags


Muesli bar and lolly wrappers


Pie packets

## DID YOU KNOW?

Soft plastic items, such as plastic bags and food wrappers, can be easily scrunched in your hand.

## What goes in your recycling bin?

## TCLASS <br> Botiles and Jars



Glass containers can be re-used many times and recycled indefinitely. The energy saved by recycling a single bottle could light a 15 -watt low energy light bulb for 24 hours!"


## HANDY HINT

## Bottle and jars don't need

 to be clean to be recycled.Just make sure most of the food contents are removed before placing in your recycling bin.


## Pert

## BAG YOURT

 RECYCLABLE:
## Plastic bags

 cannot be safely opened at the MRF. Even if the bag contains recyclable items, bags will be removed and sent to landfill.Place items loose into your recycling bin so they can be sorted and separated for recycling.

Try your best to recycle your glass bottles and jars unbroken.

These glass products do not belong in your recycling bin

Light globes
These can be recycled at the Monash Recycling and Waste Centre and other locations.
Check out recyclingnearyou.com.au
 glass have different melting points to glass containers, which creates problems when making new glass.

Drinking glass
Decorative glass


Pyrex


## What goes in your recycling bin?

 Drink cans, spray cans, trays and foil

## Aluminium can be recycled over and over again.

 Each can recycled, saves enough energy to run a TV for 3 hours.

Aerosol spray cans (empty)

## DID YOU KNON?

All used foil can be recycled! Just scrunch it into a loose ball so the machines at the MRF don't mistake it for paper.


## What goes in your recycling bin?



Steel is a very valuable resource. Making steel cans from recycled material uses $75 \%$ less energy than producing them from raw materials."


## AEROSOL CANS NEED TO BE EMPTY!

Make sure that
there is no spray left in the can.

# WHAT DOES NOT BELONG IN THE RECYCLING BIN? 



NO RECYCLABLES IN PLASTIC BAGS

Place items loosely in your recycling bin


NO GARDEN CLIPPINGS
Lawn clippings and garden prunings can go in your food and garden bin

NO CLOTHING, SHOES OR FABRICS
Items that are still in good condition can be taken to your local charity store


NO SOFT, SCRUNCHY PLASTIC BAGS AND FOOD WRAPPERS
Avoid soft plastics where possible. Check with Monash Council for options to recycle soft plastics you can't avoid

## NO BATTERIES, GLOBES OR MOBILES

Take to the Monash Recycling and Waste Centre and other locations for safe disposal


## NO FOOD SCRAPS

Put all food and vegetable scraps in your compost bin or food and garden bin


NO TOYS
If your old toys are still in good condition take them to your local charity store local chariy store


NO CERAMICS OR DRINKING GLASSES

## NO POLYSTYRENE

Clean polystyrene can be taken to the Monash Recycling and Waste Centre

## REMEMBER

No soft, scrunchy plastic bags and wrapping. Check with Council for dedicated recycling programs.

# TIPS ON REDUGING YOUR WISTE 

There are many different ways to avoid sending waste to landfill. Here are some handy tips which we can use in our everyday lives to help protect the environment.

(2)
Buy products made from recyclable packaging

Buy products in bulk

(2)
Make compost from food scraps

Donate unwanted clothing, shoes or blankets


## WHAT HAPPENS TO YOUR RECYCLINC?

## STEP 1

## COLLECT AND SORT

## 1



## KERBSIDE PICK UP

At your home, a recycle truck picks up the recycling bin from outside your house and empties it into the truck.


THE MAGNET
A magnet attracts the steel items such as food cans, and separates them from the rest of the material.

## 2



## MATERIAL COLLECTION

Material is delivered to a Visy Materials Recovery Facility where a front end loader pushes the material onto the conveyor belt.


## AIR CLASSIFIER

This machine projects a continuous blast of air that blows low density, light weight plastics, aluminium and paper up while the bottles fall downwards.


The material travels along a conveyor belt, which passes by a number of manual sorters which remove any obvious contamination.


EDDY CURRENT
A process called Eddy Current, uses a magnet to eject aluminium such as soft drink cans, by repelling it off the conveyor belt down a chute.

## STEP 2

## RECYCLING PROCESS

Once the recyclables are separated, they are sent for recycling. Recyclables can be used to manufacture new packaging and other products.


PLASTIC PELLETS

## STEP 3

 MANUFACTURING PROCESSNew products can be manufactured using recyclables.


New paper and cardboard

4


THE TURNING TUNNEL
It enters a trommel, which is like the inside of a constantly turning washing machine with large holes so products such as plastics, glass and metals drop down to a lower conveyor belt, leaving paper and cardboard to travel through the trommel.


## BOUNCING TRAMPOLINE

The paper passes over an inclined conveyor belt that vibrates. The heavy items bounce and fall back down the bouncing trampoline and the paper, which doesn't bounce makes it over the top.



BALES
Each stream is compressed and baled into a large cube which is then distributed to Visy sites around Australia and sold overseas to be recycled into new products!


New glass bottles and jars

aLUMINIUM COILS


New steel food containers


## WHAT IS LITTER?

Litter refers to small items of rubbish which are left in an open or public place. Illegal dumping refers to larger items of waste.

Not everyone intends to litter, for example the waste that is thrown to a public bin might miss and fall on the ground. Other actions are more deliberate, but there are small things that we can all do to reduce littering and dispose of waste correctly.

## BY Kiaplinc tile Land cLEAN YOU HELP KIEPP THE OCEAN CLEAN TOO.

Put your rubbish in the bin. If the bin is already overflowing, take your rubbish with you.


## WHERE DOES LITER CO?

Litter is washed down storm drains by the rain
 nearby creeks and rivers


## HOW LONE UNTLIL lfs cons

Wow! Look how long it takes these items to break down in the ocean!


## FIVE FACTS ABOUT LITIER

1. People are more likely to litter in areas that are already littered
$2.95 \%$ of litter on our beaches comes from suburban streets through the stormwater system
2. Litter can cause flooding by blocking the stormwater system
3. Litter harms marine life by polluting their habitat, being mistaken for food, and trapping or injuring them
-. Litter can be a fire hazard (e.g. lit cigarettes thrown from vehicles) and a health hazard (e.g. broken glass, needles and syringes)


As you can see, it's best to recycle as much as you can!

[^1]
# LET'S CLEAN UP THIS MESS! 

Over 7 million tonnes of plastic enter the ocean every year - that's 8 million pieces per day. This is three times as much rubbish as the annual weight of fish caught.

In Australian waters, you can find anything from a few thousand to more than 40,000 pieces of plastic per square kilometre.

Objects of any size and shape end up in the ocean. Toothbrushes, fridges, shoes, bottles, packaging, furniture, fishing gear, toys and much more have been found.

About three quarters of these objects are plastic, often broken up into small fragments, and some almost invisible. Even the beads found in some shower gels or exfoliating creams are plastic and get washed into the sea.


# TOCETLER WE CAN MAKE A DIFFEREMCE! 



Say no to straws and balloons

Say no to single-use items and look for reusable alternatives.

Buy and store food in glass jars

It's time to test what you have learnt!

## BIN IT RIGHT!

Which bin do these items belong in?


## MEMORY TEST

Put a cross through the items below that DO NOT belong in your recycling bin:


## QUESTION TIME

1. Do plastic bottles and containers belong in the recycling bin?Yes ONo
2. Recyclables placed in plastic bags, when placed in your recycling bin, could end up in landfill?True $\bigcirc$ false
3. Which of the following items should we KEEP OUT of our recycling bin?Plastic bagsPolystyrene cups and trays <br> Garden clippings}All of the above
4. Lids and labels can be left on plastic bottles when placed into the recycling bin?True $\bigcirc$ false
5. Aerosol cans must be empty before placing in the recycling bin?True $\bigcirc$ false
6. Which of the following items belong in your rubbish bin?Plastic bottlesPizza boxes
Plastic bagsAerosol cansPaper napkins

Do you have a keen eye for finding words?

| D | H | E | V | $J$ | P | I | G |  | W | A | S | T | E | K |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| S | D | N | C | 1 | L | T | J |  | M | E | J | D | H | C |  |
| U | B | V | L | H | A | F | S |  | R | E | U | S | E | N | D |
| S | K | 1 | U | 1 | S | T | R |  | E | E | S | Y | L | B |  |
| T | E | R | N | B | T | G | K |  | C | X | N | R | C | P |  |
| A | A | 0 | P | T | 1 | U | E |  | Y | Q | E | E | A | A |  |
| I | L | N | F | G | C | S | F |  | C | E | W | Q | R | N |  |
| N | $\cup$ | M | 0 | R | A | C | F |  | L | Z | S | D | T | G |  |
| A | M | E | G | N | T | A | P |  | E | W | P | F | 0 | L |  |
| B | I | N | W | E | Z | N | J |  | V | 0 | A | P | N | A |  |
| L | N | T | O | L | R | S | W |  | P | A | P | E | R | S |  |
| E | 1 | Y | H | T | U | M | A |  | Q | W | E | V | 1 | S |  |
| X | U | 1 | Q | T | S | Y | T |  | W | L | R | D | 1 | U |  |
| S | M | R | V | O | X | J | E |  | V | K | H | O | N | A |  |
| C | A | $R$ | D | B | 0 | A | R |  | D | C | G | R | E | E |  |

environment SUSTAINABLE WATER
TREES
VISY
ENERGY
PAPER

BIN
PLASTIC CANS
CARTON
REDUCE
CARDBOARD
bottle

REUSE
RECYCLE ALUMINIUM GREEN

WASTE NEWSPAPER GLASS

## DO YOU REMEMBER.?

What are these five recyclable materials made from? 1. is made from trees
2. Plastics are made from $\qquad$ oil

3. $\qquad$ is made from bauxite
4. Steel is made from $\qquad$ ore
5. $\qquad$ is made from sand, limestone and soda ash


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[^1]:    Source: Sustainability Victoria
    Victoria Marine Science - this was on the 'What is marine debris' fact sheet from Tangaroa Blue Foundation https://tangaroablue.org/resources/fact-sheets/category/29-marine-debris-fact-sheets.html

