



Polyco 

High School
(Gr 8 - 12)



PACKA-CHING®
RECYCLE AND EARN



TOP 10 GLOBAL LITTER ITEMS

1



Cigarette BUTTS

2



FOOD WRAPPERS
(sweets and crisp packets)

3

PLASTIC DRINK BOTTLES



4



plastic bottle CAPS

5



STRAWS

6

PLASTIC grocery BAGS



7



GLASS DRINK BOTTLES
(soda, beer and wine)

8



OTHER PLASTIC BAGS AND PACKETS

9

PAPER BAGS



10



SODA CANS

CHECK YOUR GUILT FACTOR!

HOW TO RECYCLE



1 Make sure the product can be recycled.

2 Rinse your recyclable packaging in used water (fresh water is wasteful).

3 Allow it to drip dry.

4 Place the clean recyclable packaging in a carrier bag, separate from your normal waste.

5 Make sure to separate your different materials into different bags.

6 Participate in the PACKA-CHING initiative in your neighbourhood.

You can squash your plastic and cans to make them a lot smaller so you can fit far more in your bag!

RECYCLING

RECYCLING means taking something old and turning it into something new, through a mechanical process.

RECYCLE because it can save the planet from running out of energy and resources.

WHY SHOULD WE COLLECT & RECYCLE?



- IT REDUCES LITTER
- IT SAVES ENERGY
- IT LOOKS AFTER NATURE
- IT LEAVES THE PLANET A BETTER PLACE
- IT REDUCES POLLUTION IN THE AIR
- USED PACKAGING HAS VALUE

RECYCLE YOUR LITTER

PLASTIC



GLASS



RECYCLE

PAPER



CANS





WHAT CAN WE RECYCLE?

PLASTIC

In **South Africa** we can recycle a lot of different types of plastic, but not all of them. When we recycle plastic mechanically, it can be made into new things.

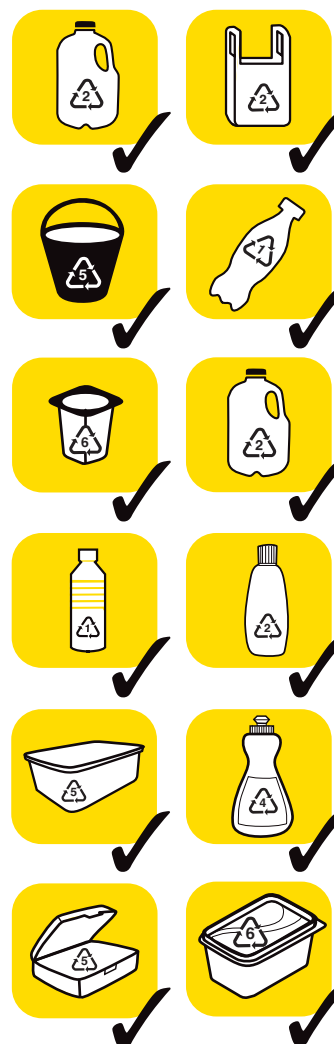


PLASTIC THAT WE CAN RECYCLE:

- Foam / polystyrene packaging
- Plastic bottles
- Plastic trays / tubs (not ♻️)
- Plastic bags
- Plastic buckets

PLASTIC THAT WE CANNOT RECYCLE:

- Chip packets
- Sweet wrappers
- Washing powder bags
- Sauce sachets
- Dirty clamshell packaging



Tips for collecting PLASTIC



THERE ARE MANY DIFFERENT TYPES OF PLASTIC.

Each one is represented by a special code inside a small triangle. You will find the numbers 1, 2, 3, 4, 5, 6 or 7.

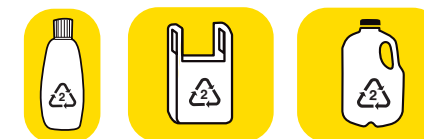
ALL MATERIALS MUST BE SEPARATED INTO DIFFERENT BAGS BEFORE THEY CAN BE TAKEN TO THE PACKA-CHING TRUCK (NOTE: NOT ALL NUMBERS ARE ACCEPTED).



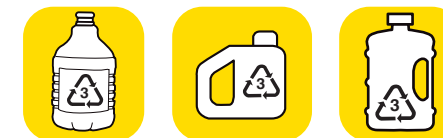
Soft drink, juice and water bottles.



Common white or coloured plastic, like milk bottles and shampoo/detergent containers.



Hard, rigid, clear plastic, like water bottles and cordial bottles.



Soft, flexible plastic bottles, like squeezable sauce bottles and plastic film products such as bread bags.



Hard but flexible plastic, like ice cream and lunch boxes.



Rigid, brittle plastic, like margarine tubs, yoghurt tubs & foam/polystyrene containers.



Multi-layered packaging such as sauce sachets, soup packets and crisp packets.



Unfortunately number 7 plastics will not be accepted by PACKA-CHING



PAPER

PAPER THAT WE CAN RECYCLE:



- Cardboard of any kind (dry food, cosmetic & medicine boxes, toilet roll cores)

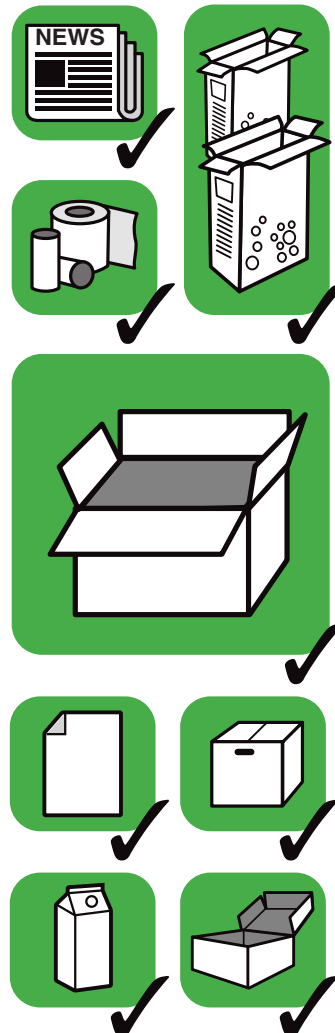


- Office paper
- Magazines and brochures (including glossy kinds)
- Newspapers
- Envelopes
- Liquid packaging (milk and juice)

PAPER THAT WE CANNOT RECYCLE:



- Dirty paper plates
- Wet or dirty paper or cardboard
- Disposable nappies
- Tissues, toilet paper and paper towels
- Dog food bags
- Wax-coated or foil-lined boxes
- Used cement bags
- Carbon paper



LET US START CLEANING UP!



GLASS

GLASS THAT WE CAN RECYCLE:

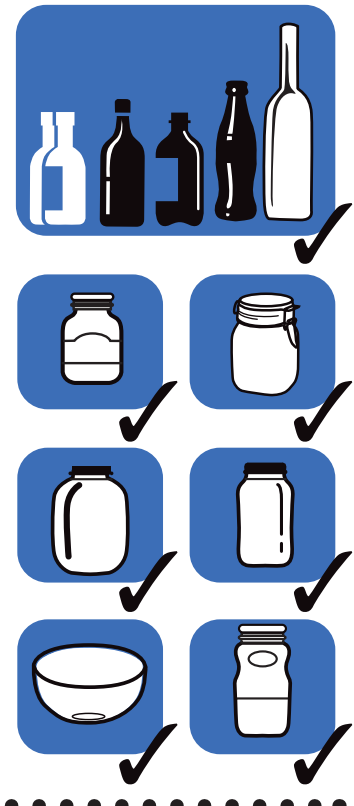
- Cool drink, juice and water bottles
- Food and sauce bottles and jars
- Wine and alcohol bottles
- Clear drinking glasses
- Beer bottles



GLASS THAT WE CANNOT RECYCLE:



- Clay flower pots
- Window pane glass
- Ceramic cups and plates
- Heat-resistant ovenware
- Crystal
- Light bulbs
- Mirrors and windscreen glass
- Crystal drinking glasses & tumblers



CANS

STEEL AND ALUMINIUM CANS MUST BE SEPARATED.

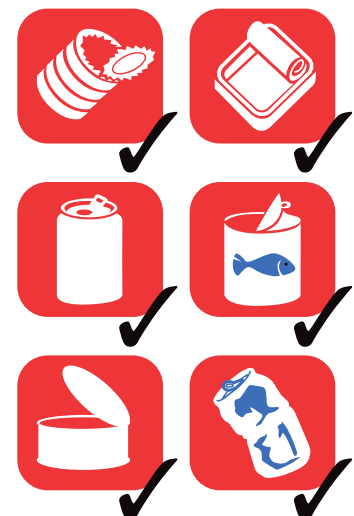
PLEASE USE YOUR MAGNET TO CHECK WHICH CANS ARE ALUMINIUM AND WHICH ARE STEEL. Remember, the magnet will stick to the steel cans. Once you know which is which you must separate them.



CANS THAT WE CAN RECYCLE:

Aluminium and steel cans:

- Beverage cans
- Food cans



THE TRUTH OF RECYCLING & IMPACT

KNOW YOUR NUMBERS!

Look for the number in the triangle (usually underneath the product.)

PLASTICS

is versatile, durable and recyclable. It is only waste when it is wasted! Remember to **RECYCLE** your plastics.

THE PRODUCT CONTAINED WITHIN PACKAGING OFTEN HAS A HIGHER CARBON FOOTPRINT THAN THE PACKAGING ITSELF, AND THUS IT IS VITALLY IMPORTANT TO PROTECT THE CONTENTS TO PREVENT WASTING RESOURCES AND REDUCE **CO2 EMISSIONS.**

IN 2020,
52 100

JOBS WERE CREATED IN THE RECYCLING INDUSTRY, ENABLING PEOPLE TO EARN AN INCOME AND SUPPORT THEIR FAMILIES.



92% OF DEAD SEABIRDS FOUND SHOW THAT 5% OF THEIR BODY WEIGHT IS INGESTED PLASTIC.

SOME INTERESTING PRODUCTS MADE FROM RECYCLED PLASTICS

- garbage bags • dustbins • irrigation pipes
- picture frames • garden furniture • buckets
- fence poles • rooftiles • fibre • flower pots
- automotive parts • shoe soles • coat hangers
- garden tools • refuse bags • sawdust bags
- door and car mats • hoses • stationery



RECYCLING
1 tonne of paper saves **3** CUBIC METERS of landfill space

IN 2020,
461 500 TONS OF PLASTIC WASTE WAS COLLECTED FOR RECYCLING.



GLASS

GLASS TAKES OVER **1 000 000** YEARS (ONE MILLION)

DECOMPOSE (BREAKDOWN AND DISAPPEAR) IN OUR LANDFILLS OR DUMPS.

PLASTIC RECYCLING

BEGAN IN **1977**

GLOBALY... **10 MILLION** PLASTIC SHOPPING BAGS ARE USED!



Fishing Line Bins

have been placed on BEACHES along the coastline for the disposal of fishing line to avoid sea creatures from getting entangled.



THE **ENERGY** SAVED BY RECYCLING ONE SINGLE PLASTIC BOTTLE IS ENOUGH TO POWER A 60-WATT LIGHTBULB FOR **6 HOURS.**

RECYCLING one aluminium CAN saves enough ELECTRICITY TO OPERATE A TV FOR UP TO **3 HOURS**

RECYCLING SAVED **214,500** TONS OF CO2 DURING 2020, THE EQUIVALENT OF EMISSIONS FROM **45 000** CARS!



PACKA-CHING®
RECYCLE AND EARN





GREEN CAREERS

As concern for the **ENVIRONMENT** and the future of our planet has increased, opportunities in the environmental job market have also increased.

As with any career field, jobs in the environmental portfolio are also varied. You could end up doing exciting scientific research, desk work, field work, or some combination thereof. Your focus could be mathematical, physical or written.

If you have an interest in a specific field, knowing what is available to you is critical when choosing a career.

Finding something you enjoy doing within the broad scope of the environment field shouldn't be very difficult when there are so many options.



DIFFERENT TYPES OF CAREERS IN ENVIRONMENTAL PROTECTION

- **OUTDOOR & FIELD-BASED JOBS** (eg. wildlife preservation)
- **TRADITIONAL JOBS WITH GREEN ALTERNATIVES** (eg. green car manufacturing)
- **RENEWABLE ENERGY JOBS** (eg. wind turbine technology)
- **REGULATION & POLICY-MAKING JOBS** (eg. environmental protection agency officers)

Want a good job that's also geared towards saving the planet?

The 'green sector' could be just the work environment that you're looking for!



GREEN JOBS

WHO THEY ARE AND WHAT THEY DO!



Environmental engineers use the principles of engineering, soil science, biology, and chemistry to develop solutions to environmental problems. They are involved in efforts to improve recycling, waste disposal, public health and water and air pollution control.



An **ENERGY AUDITOR** inspects, surveys and analyses energy flows for energy conservation in a building, process or system, to reduce the amount of energy input into the system without negatively affecting the output.

A **HYDROLOGIST** is a specialised type of scientist who studies water and the water cycle. They use their expertise to solve problems in the areas of water quality or availability.



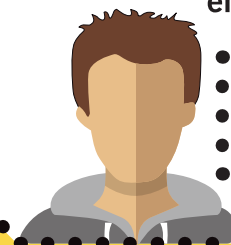
A **CONSERVATION SCIENTIST** is someone who manages the overall land quality of forests, parks, rangelands and other natural resources. They work with landowners and all levels of government to devise ways to use and improve the land while safeguarding the environment.

An **URBAN PLANNER** or **CITY PLANNER** is a professional who works in the field of urban planning for the purpose of optimising the effectiveness of a community's land.



The **MUNICIPALITY** offers many environment-related jobs. These may include Drivers, Logistics Managers, Communications Officers, Project Managers and more.

An **ENVIRONMENTAL CONSULTANT** works with organisations on a range of environmental issues, offering expert advice and assessment services to ensure that possible damaging effects are minimised or eliminated.



ENVIRONMENTAL PLANNERS are responsible for developing short and long-term plans for land use in urban and rural areas while balancing considerations such as social, economic and environmental issues.



PACKA-CHING

GET PAID FROM RECYCLING

THIS IS FOR YOU AND YOUR COMMUNITY ...

HOW PACKA-CHING WORKS:

- 1** Find our nearest Packa-Ching Mobile, Pop-up or Static unit.
- 2** Your family members bring in bags of separated recyclable materials.
- 3** The recyclable materials will then be weighed and loaded into bulk bags.
- 4** The money for the materials, is paid to the customer's cellphone. The customer will receive an SMS to confirm the amount earned.

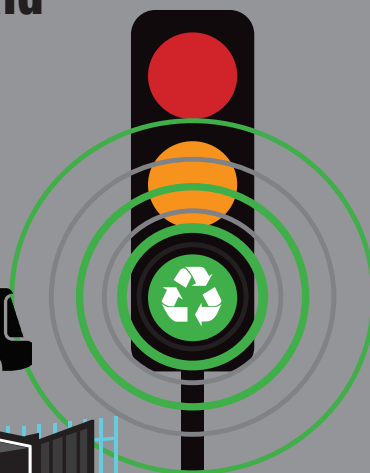
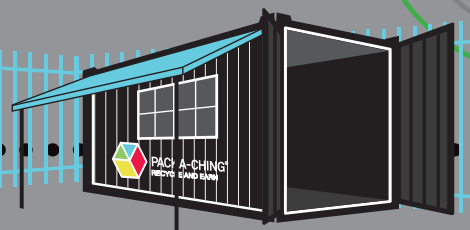
- 5** The funds are immediately available to spend at any participating merchant, such as Shoprite, Checkers, uSave, Pick 'n Pay, Clicks, Dischem stores, or to purchase airtime, withdraw cash or transfer to anyone in South Africa.

 **RECYCLE & EARN!**

**START
COLLECTING AND
RECYCLE!**

**GET
EVERYONE
INVOLVED!**

**TELL YOUR
FAMILY TO GO
TO PACKA-CHING
AND HELP THEM
TO COLLECT
RECYCLABLE
MATERIAL TO
EARN.**



LOL



I work in a can recycling factory.
My job is to crush cans.
I don't enjoy it. It's soda pressing.

Did you hear the one about the aluminium recycling plant?
It smelt!



I HAVE AN OBSESSION WITH WIND FARMS.

REALLY?

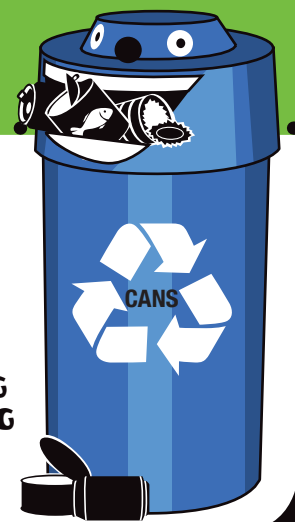
YES. I'M A HUGE FAN.

WHEN YOU BUILD A BICYCLE WITH OLD PARTS IT IS CALLED RECYCLING!

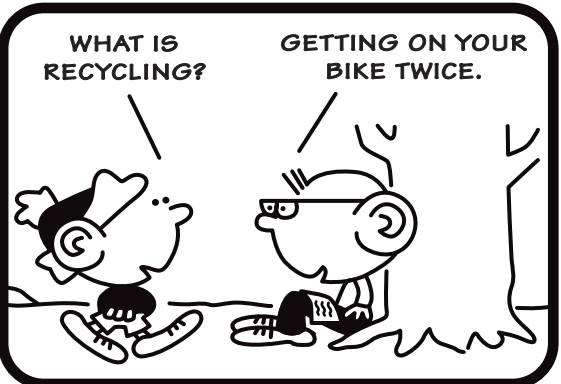
GLOBAL WARMING IS AN ANAGRAM OF: BALL GOING WARM

What's the difference between weather and climate?
You can't weather a tree, but you can climate.

WHY ARE RECYCLE BINS OPTIMISTIC?
BECAUSE THEY'RE FULL OF 'CANS'.



I'M TRYING TO START UP MY OWN BUSINESS, RECYCLING DISCARDED CHEWING GUM.
I'M JUST HAVING TROUBLE GETTING IT OFF THE GROUND.



WORDSEARCH CHALLENGE

FIND THE WORDS IN THE BLOCK BELOW.

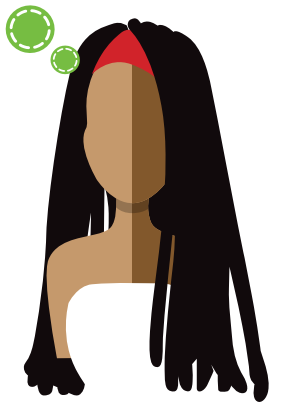


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RIVER
PAPER
PLANT
WATER
REUSE
WASTE
REDUCE
PLASTIC

CANS
LITTER
SPECIES
HABITAT
RECYCLE
ECOLOGY
POLLUTION
ENVIRONMENT



A Polyco ♣ Initiative



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RECYCLE AND EARN

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