

PLASTIC POLLUTION BACKGROUND AND OVERVIEW

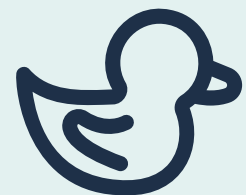
WHAT IS MARINE DEBRIS?



PLASTIC PRODUCTION

- PLASTIC WAS FIRST PRODUCED COMMERCIALY IN THE EARLY 1950s
- SINCE THEN, PLASTIC PRODUCTION HAS GROWN
- NOW, WE PRODUCE MORE THAN 380 MILLION TONNES EACH YEAR





NATURAL
RUBBER
DISCOVERED

1839



'BAKELITE' THE FIRST
COMMERCIALY
USED PLASTIC
INVENTED

1907



PET, PE, PP,
ACRYLIC AND
STYROFOAM
INVENTED

1935-54



FIRST 'GARBAGE
PATCH'
DISCOVERED

1997



SCIENTIFIC LITERATURE
ON MICROPLASTIC IN
THE OCEAN GROWS

2010s



1840-62

POLYSTYRENE AND
PARKENSINE
DISCOVERED



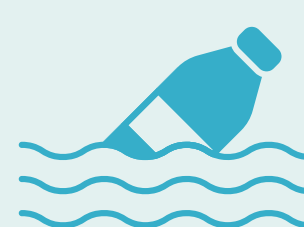
1926

PLASTICISED
PVC
DISCOVERED



1960

PLASTIC WASTE
FIRST OBSERVED
IN OCEAN



2004

TERM
'MICROPLASTIC'
FIRST COINED



CURRENTLY

ACTIONS TO
MITIGATE PLASTICS
ADVANCE



PLASTIC
TIMELINE

WHY DID PLASTIC BECOME SO POPULAR?

ADVANTAGES

CHEAP
LIGHTWEIGHT
STRONG
EASY TO CREATE
VERSATILE
LONG LASTING
SANITARY



Throwaway Living

DISPOSABLE ITEMS CUT DOWN HOUSEHOLD CHORES

The objects flying through the air in this picture would take 40 hours to clean—except that no housewife need bother. They are all meant to be thrown away after use. Many are new; others, such as paper plates and towels, have been around a long time but are now being made more attractive.

At the bottom of the picture, to the left of a New York City Department of Sanitation trash can, are some throwaway vases and flowers, popcorn that pops in its own pan. Moving clockwise around the photograph come assorted frozen food containers,

a checkered paper napkin, a disposable diaper (seriously suggested as one reason for a rise in the U.S. birth rate) and, behind it, a baby's bib. At top are throwaway water wings, foil pans, paper tablecloth, guest towels and a sectional plate. At right is an all-purpose bucket and, scattered throughout the picture, paper cups for beer and highballs. In the basket are throwaway draperies, ash trays, garbage bags, hot pads, mats and a feeding dish for dogs. At the base of the basket are two items for hunters to throw away: disposable goose and duck decoys.

CONTINUED

1955

LIFE MAGAZINE
ADVERTISEMENT

PLASTIC COMMERCIALS

SARAN
WRAP 1953



TUPPERWARE
1960S



PEPSI-COLA
1978



AMERICAN
PLASTICS
COUNCIL 1997



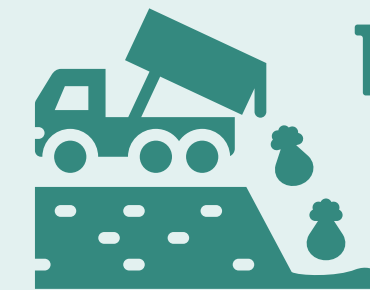
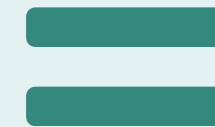


PLASTIC USES

PLASTIC ENTERING THE MARINE ENVIRONMENT



8 MILLION TONNES
OF PLASTIC ENTERS THE MARINE
ENVIRONMENT EVERY YEAR



1 RUBBISH TRUCK
WORTH EACH
MINUTE

PLASTIC IN THE OCEAN



SOURCES OF MARINE PLASTIC POLLUTION



**MISMANAGED
PLASTIC WASTE
(LITTER)**

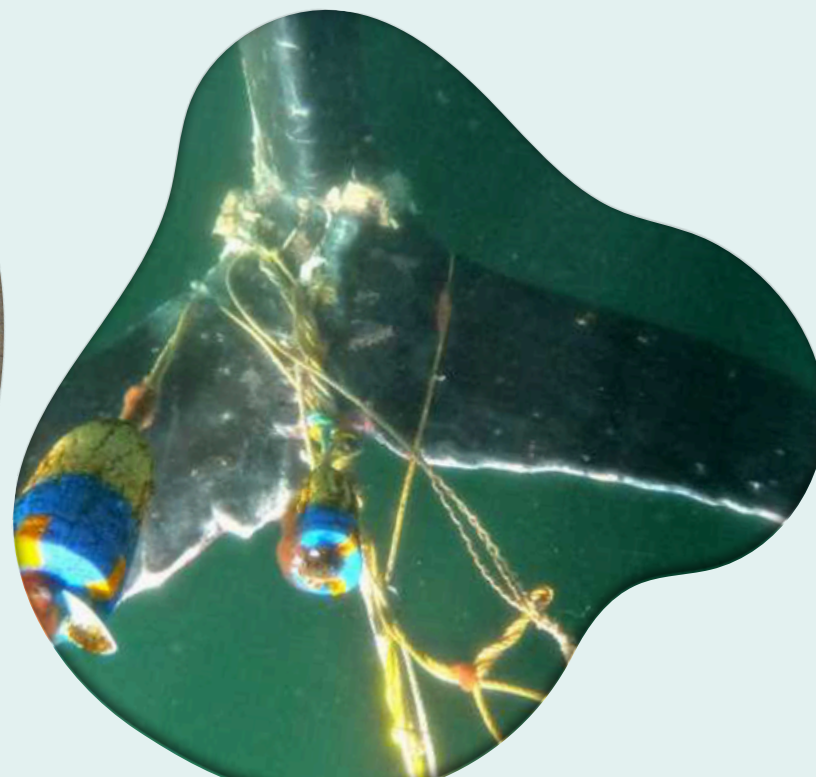


**SEA-BASED PLASTIC
DEBRIS**



MICROPLASTICS

PLASTICS AND MARINE LIFE



PLASTIC POLLUTION IN AUSTRALIA



ALL THIS PLASTIC
WAS FOUND ON
AUSTRALIAN
BEACHES



NORTHEAST ARNHEM LAND



MARINE DEBRIS ON THE COAST



RECYCLING



REDUCE
REUSE
RECYCLE

ALTERNATIVES



RESEARCH



SOLUTIONS

EDUCATION



DISCUSSION POINTS

WHAT BEACHES IN THE AREA HAVE YOU
SEEN PLASTIC?

HAS ANYONE EVER HELPED OR WANTS TO
HELP WITH A BEACH CLEAN?

PRACTICAL

**COMPLETE THE WORKSHEET ABOUT
PLASTIC POLLUTION**