

TYPES OF PLASTIC AND MICROPLASTICS

OVERVIEW

PLASTIC VARIES, DEPENDING ON
WHAT IT IS USED FOR

SOME IS FLEXIBLE, SOME IS RIGID

TYPES OF PLASTIC

RESIN IDENTIFICATION CODE (RIC) SYSTEM



PET

POLYETHYLENE
TEREPHTHALATE



WATER BOTTLES,
JARS, CAPS



HDPE

HIGH-DENSITY
POLYETHYLENE

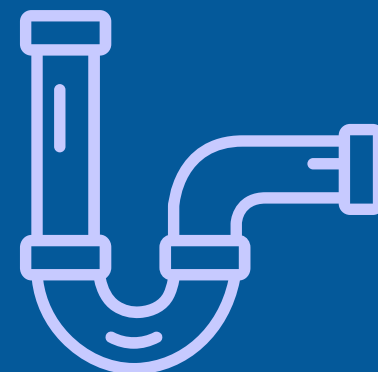


SHAMPOO
BOTTLES,
GROCERY BAGS



PVC

POLYVINYL
CHLORIDE



CLEANING
PRODUCTS,
SHEETINGS, PIPES



LDPE

LOW-DENSITY
POLYETHYLENE

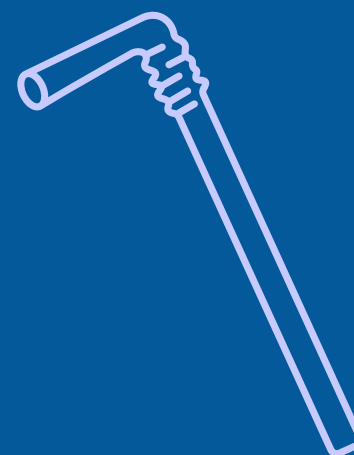


BREAD BAGS,
PLASTIC FILMS

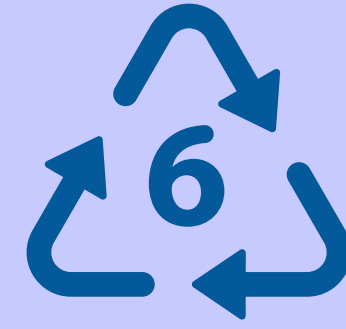


PP

POLYPROPYLENE



YOGHURT CUPS,
STRAWS,
HANGERS

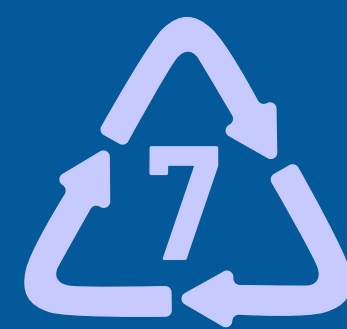


PS

POLYSTYRENE

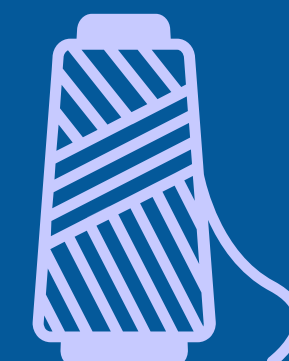


TAKE-AWAY AND
HARD
PACKAGING



OTHER

OTHER



BABY BOTTLES,
NYLON, CDS

HOW DO WE TELL THEM APART?

- PLASTIC IS OFTEN MARKED WITH THE SYMBOL OF WHICH TYPE IT IS
- LIDS ARE OFTEN MARKED ON THE INSIDE
- THE TYPE OF PLASTIC MATTERS WHEN IT COMES TO RECYCLING



HDPE

HARDER LIDS
FROM SOFT
DRINK BOTTLES

HIGHER
MELTING TEMP



LDPE

MORE FLEXIBLE
MILK BOTTLE
LIDS

LOWER
MELTING TEMP

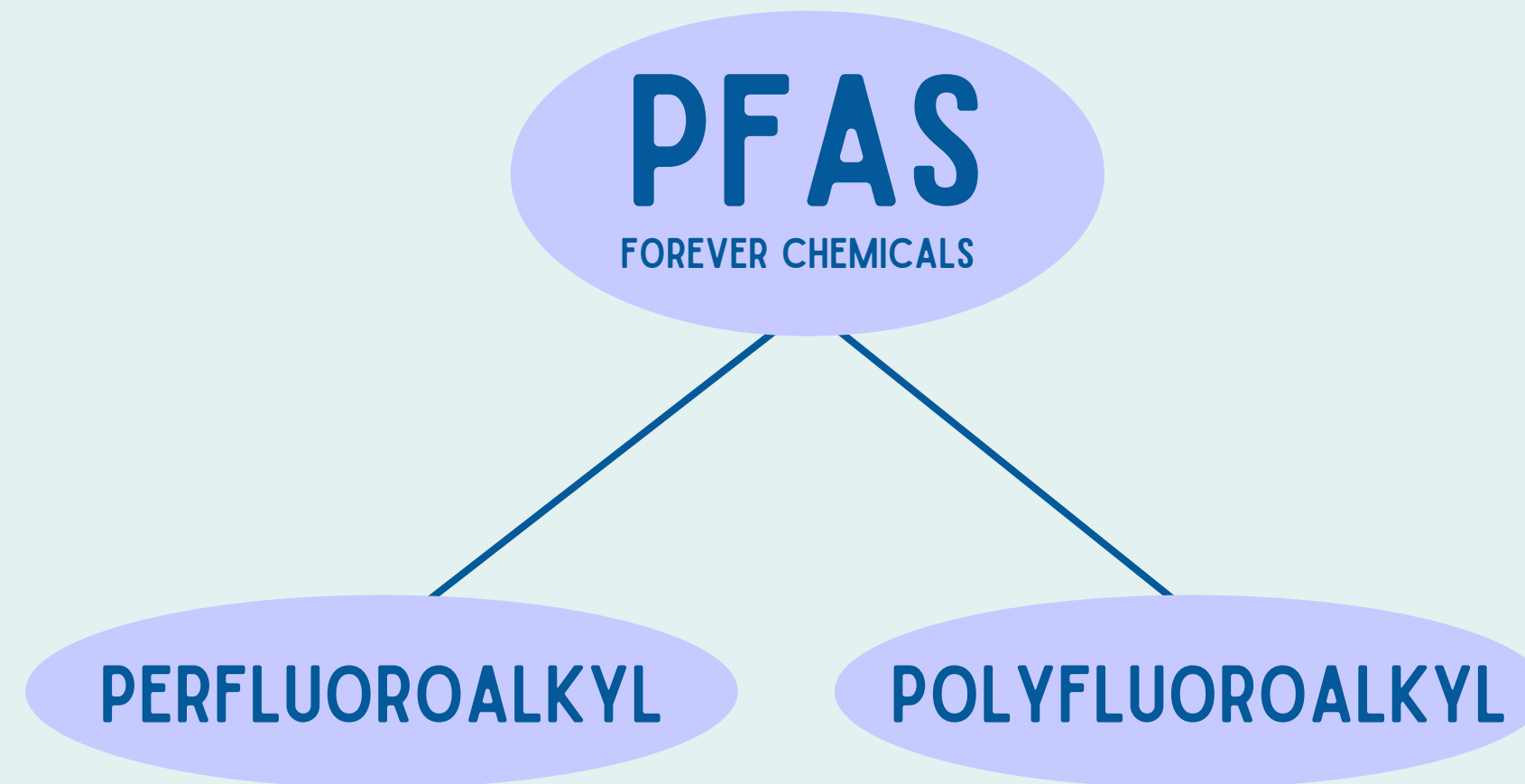


DISCUSSION POINTS

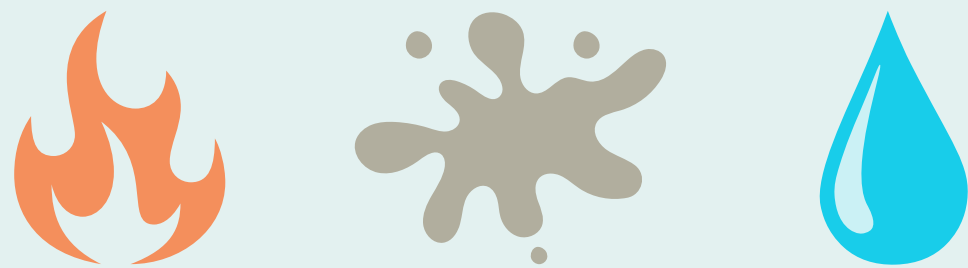
**WHAT TYPE OF PLASTIC ARE YOUR
ITEMS MADE FROM?**

IS THERE PLASTIC IN YOUR CLOTHING?

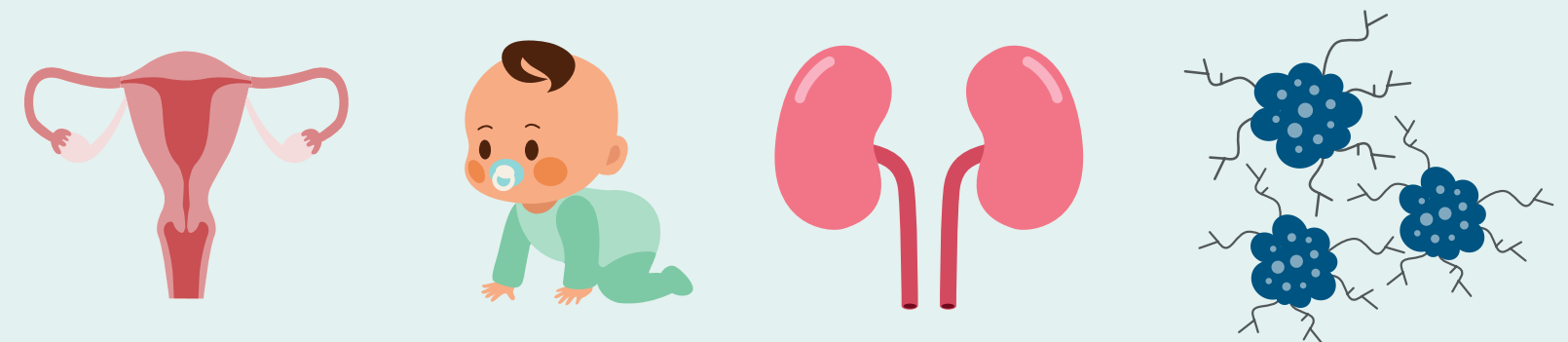
PFAS & PLASTIC



MAKE PRODUCTS RESISTANT TO:



EFFECT ON HUMAN HEALTH:



PFAS

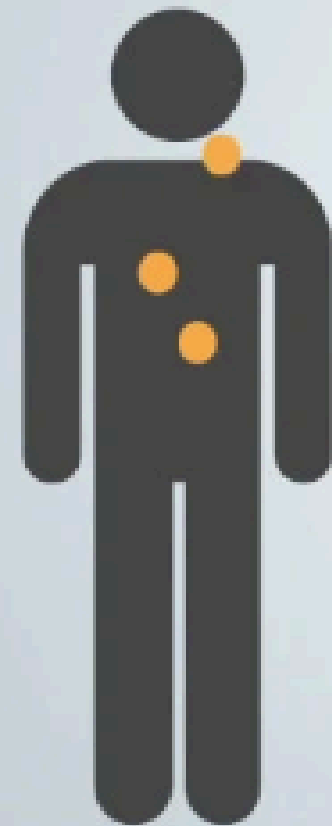


Explained: What are PFAS compounds and how can they affect human health?



Share

PFAS



Watch on  YouTube

WHAT ARE MICROPLASTICS?



DEFINITION OF MICROPLASTIC

PLASTIC LESS THAN 5_{MM}

TYPES OF MICROPLASTIC

PRIMARY MICROPLASTIC

PLASTIC PIECES THAT WHEN
PRODUCED ARE $< 5\text{mm}$



NURDLES

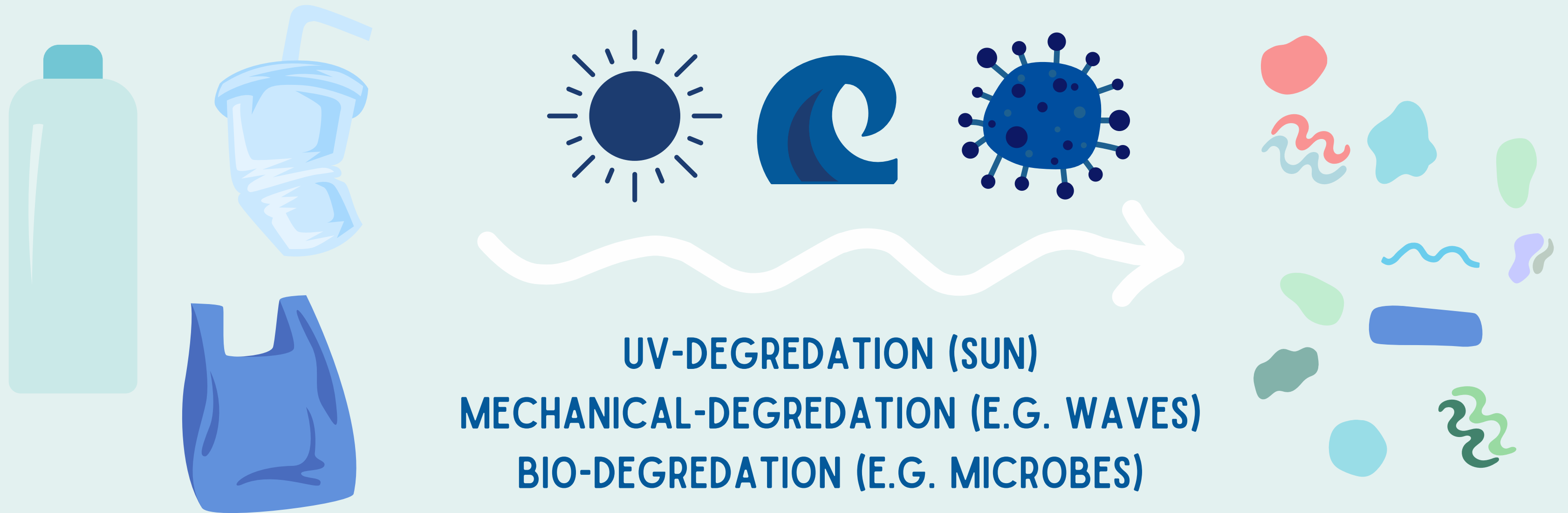


SECONDARY MICROPLASTIC

PLASTIC PIECES THAT BREAKDOWN
INTO MICROPLASTICS



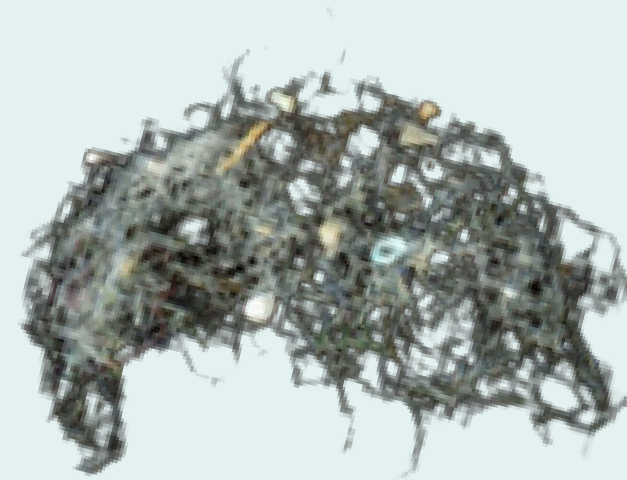
MICROPLASTIC DEGRADING



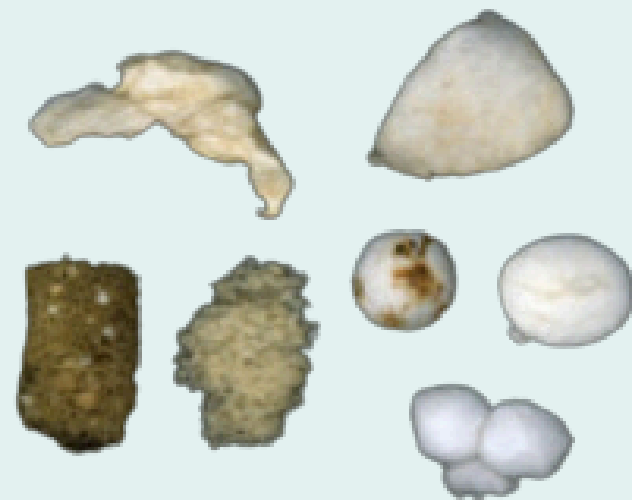
TYPES OF MICROPLASTICS FOUND



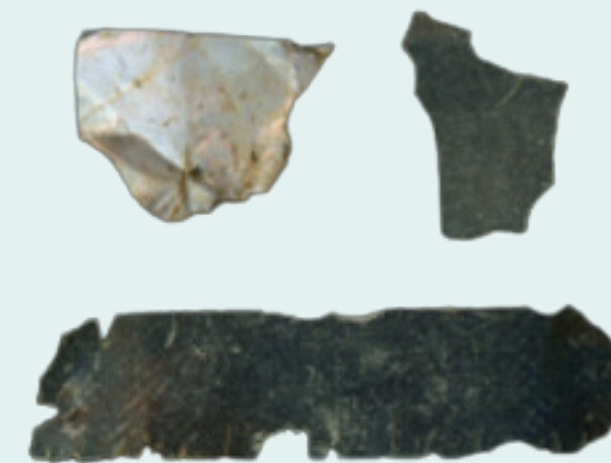
FRAGMENTS



FILAMENTS



FOAM



FILM



PELLETS

MICROPLASTIC IN THE ENVIRONMENT

MICROPLASTICS ARE EVERYWHERE, THEY HAVE BEEN FOUND IN THE MARIANA TRENCH, ANTARCTICA, AND EVEN IN THE CLOUDS...



MICROPLASTIC ON THE BEACH IN ARNHEM LAND, NORTHERN TERRITORY. WANUWUY (CAPE ARNHEM) AND DHAMBALIYA (BREMER ISLAND)

HOW MICROPLASTICS AFFECT YOUR HEALTH



PRACTICAL

**COMPLETE THE WORKSHEET ABOUT
TYPES OF PLASTIC**