



**PLASTIC  
RECYCLING AND  
ALTERNATIVES**

# SOLUTIONS FOR PLASTIC WASTE

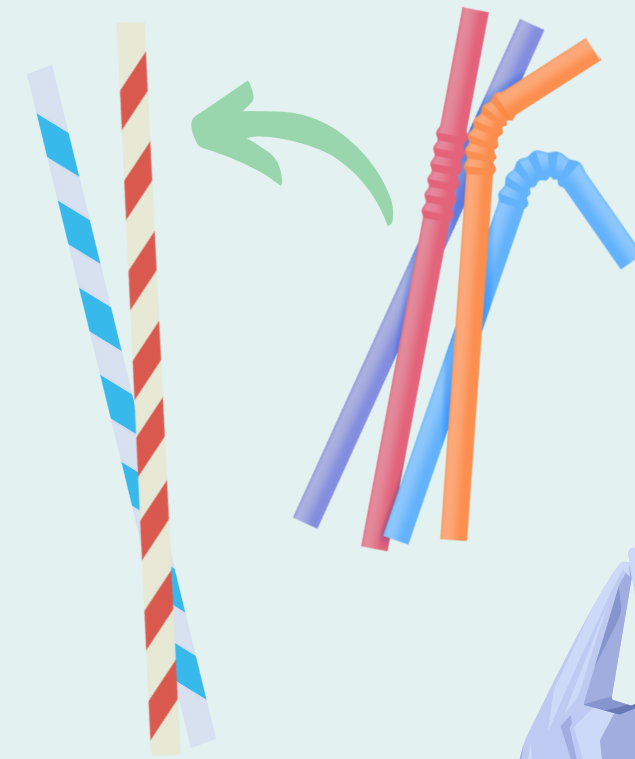
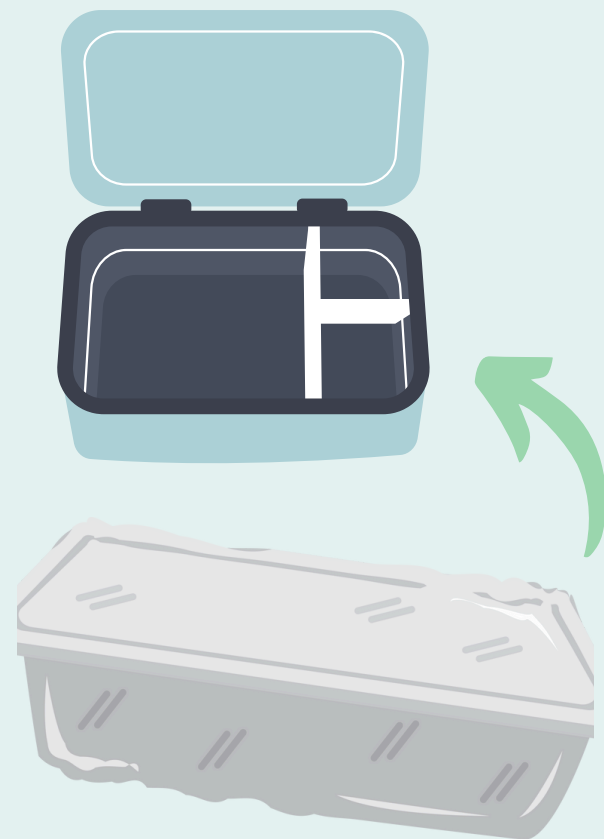


Watch on  YouTube

# COMMON ALTERNATIVES



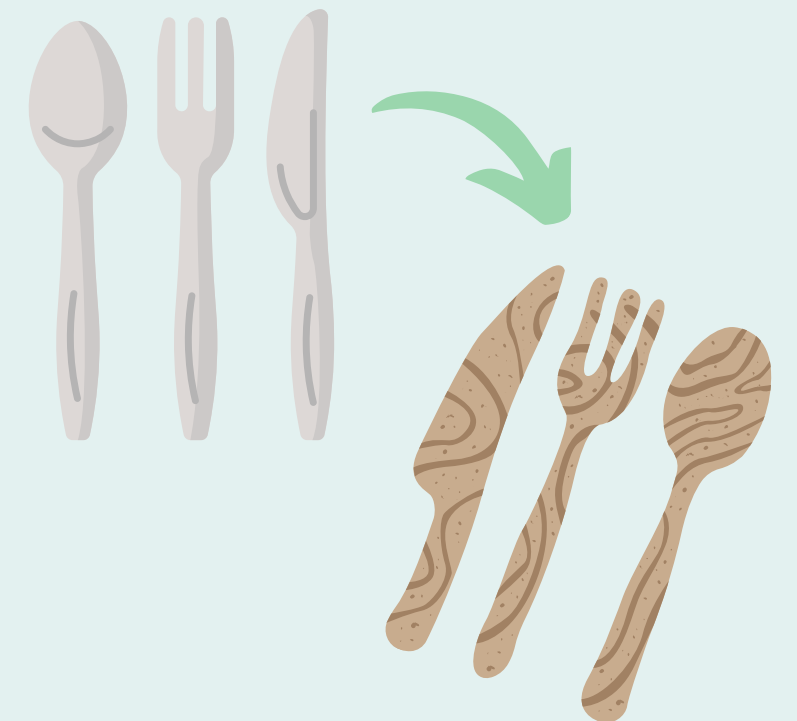
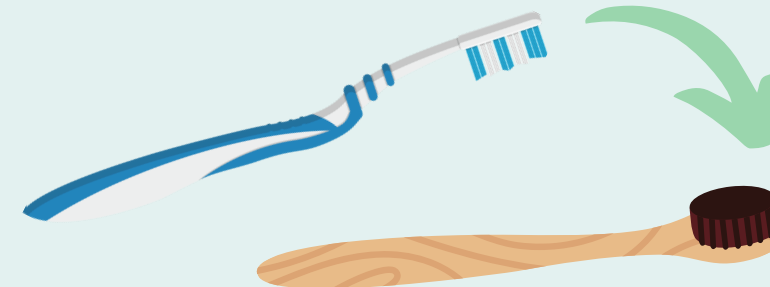
**METAL**



**PAPER**



**WOOD**



# COMPOSTABLE ALTERNATIVES

## BIODEGRADABLE

BREAKS DOWN  
NATURALLY

MONTHS - YEARS

## COMPOSTABLE

BREAKS DOWN INTO  
NON-TOXIC &  
NUTRIENT RICH

90-180 DAYS

# **DISCUSSION**

**CAN YOU THINK OF OTHER PLASTIC  
ALTERNATIVES?**

**WHAT PLASTIC ALTERNATIVES ARE  
YOU ALREADY USING?**

# CIRCULAR ECONOMY



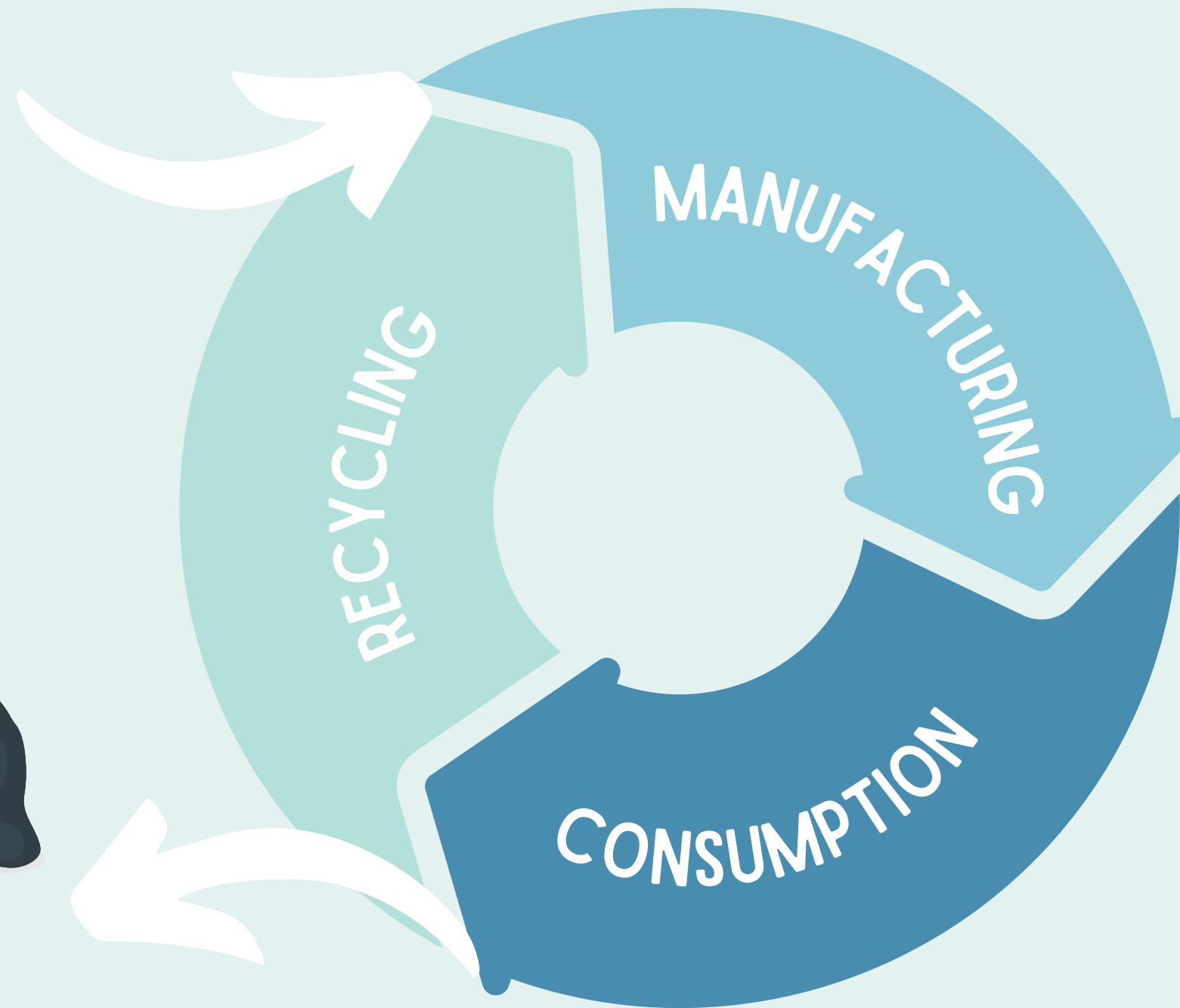
# CIRCULAR ECONOMY



RESOURCES



WASTE



# RECYCLING PROCESSES - MECHANICAL

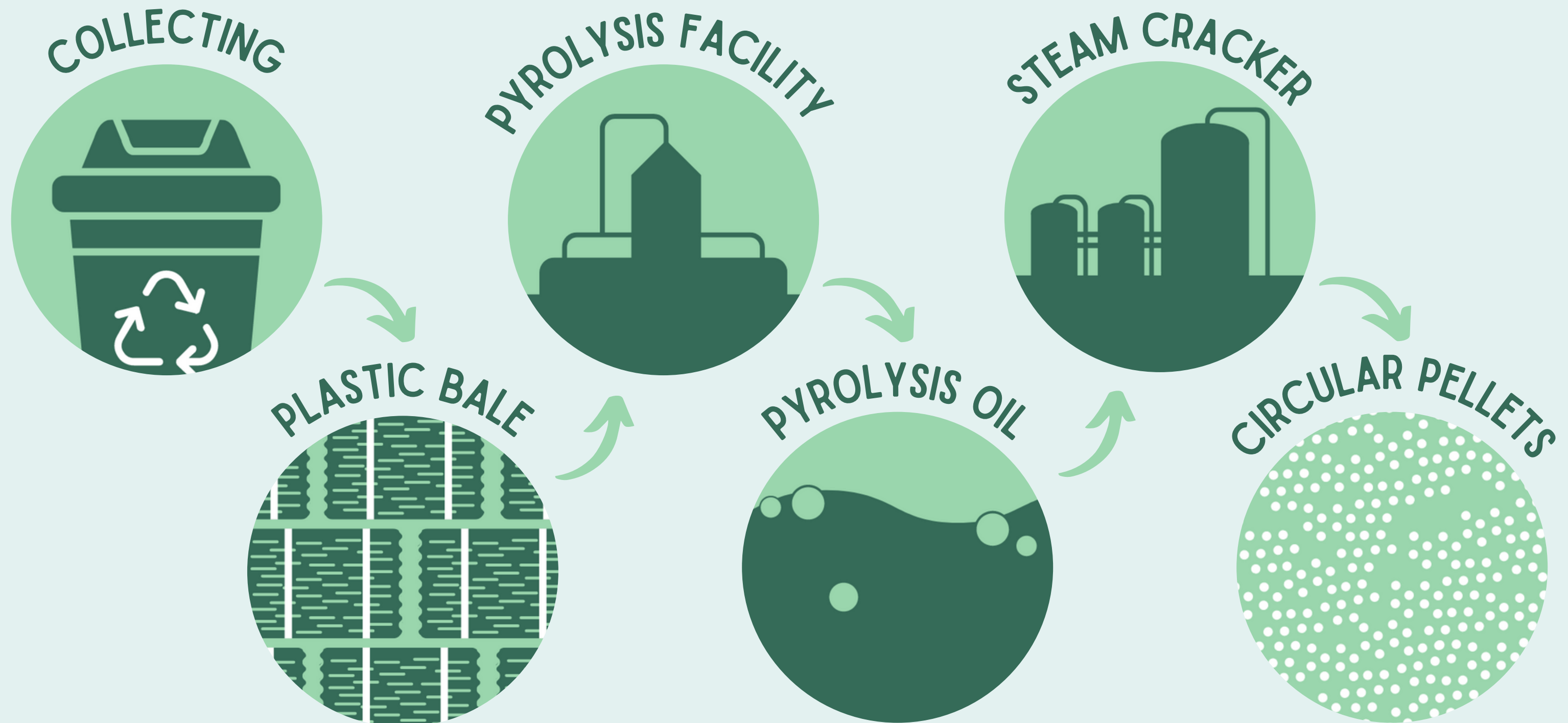
MECHANICAL = SAME POLYMER, NEW FORM

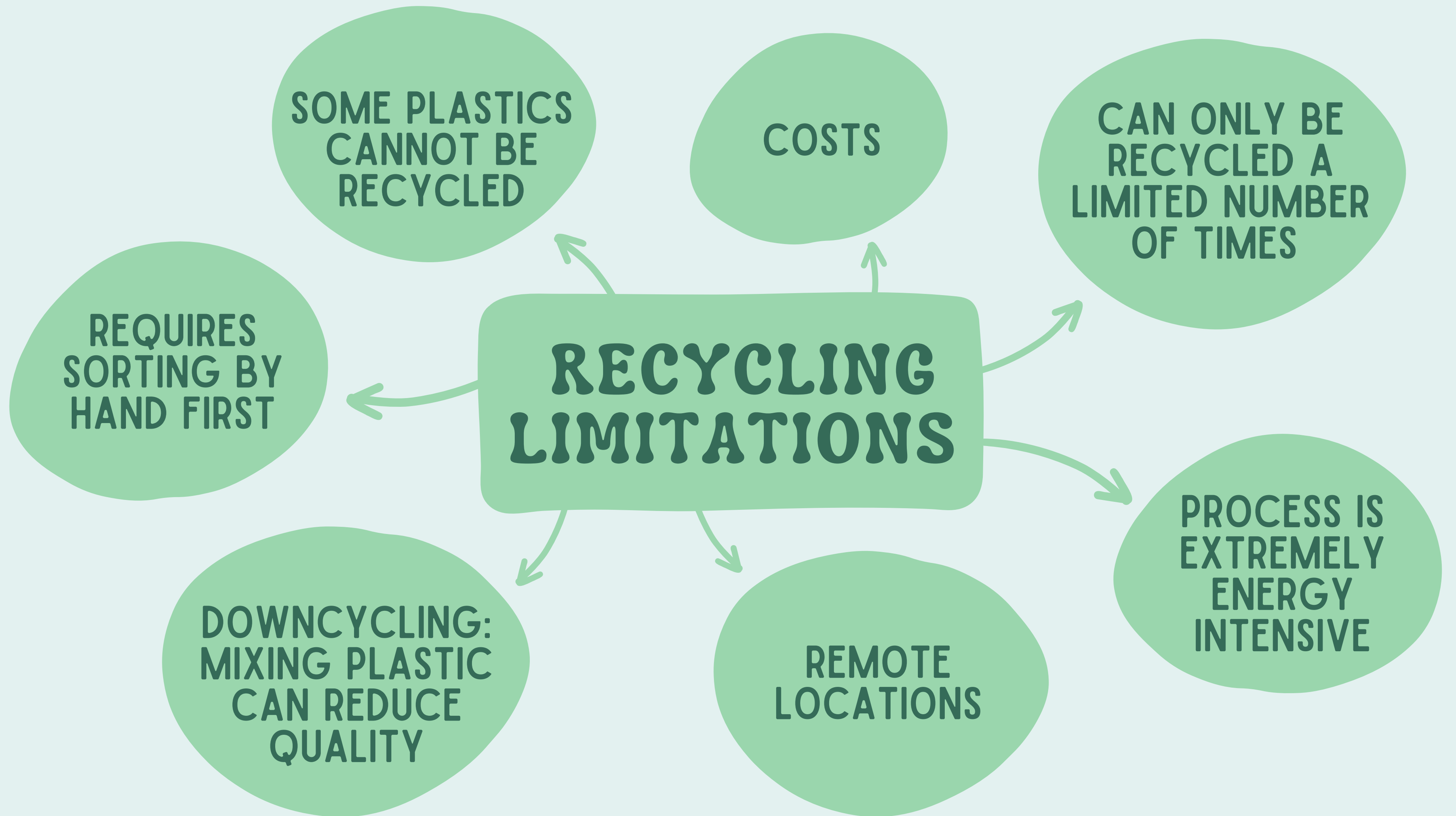




# RECYCLING PROCESSES - CHEMICAL

CHEMICAL = CREATES VIRGIN POLYMER





# **BENEFITS OF RECYCLING PLASTIC**

**GIVES  
PLASTIC A  
NEW LIFE**

**CHEAPER THAN  
PRODUCING NEW  
PLASTIC**

**REDUCES  
WASTE**

**LESS CO<sub>2</sub>  
EMISSIONS  
THAN NEW  
PLASTIC**

**AVOIDS PLASTIC  
ENDING UP IN THE  
ENVIRONMENT**

**HELPS KEEP  
OUR OCEANS  
CLEAN**



# IMPORTANCE OF WASTE DISPOSAL

HELPS TO KEEP THE  
ENVIRONMENT  
CLEAN



HELPS THE  
COMMUNITY STAY  
HEALTHY



# INNOVATIVE SOLUTIONS

SHOES



WETSUITS



REUSABLE CONTAINERS,  
BOTTLES & CUTLERY



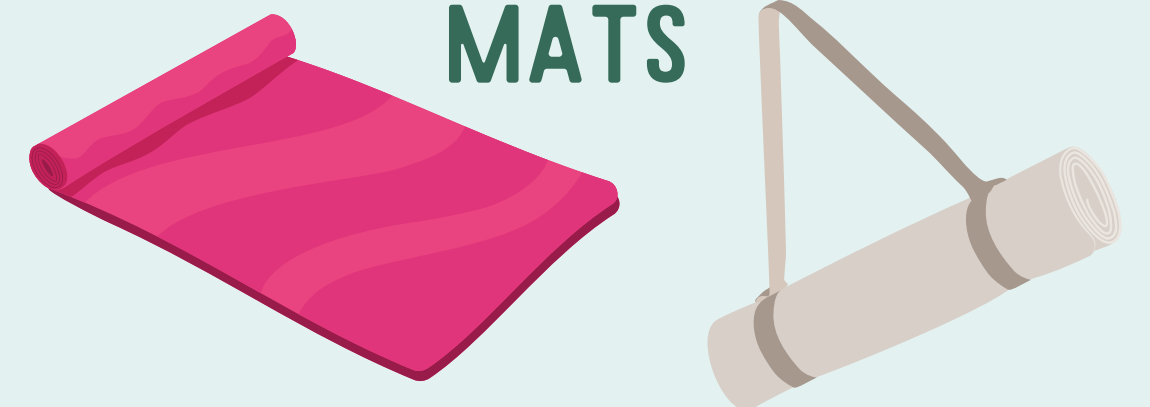
CLOTHING



SOAP & CLEANING  
PRODUCT BOTTLES

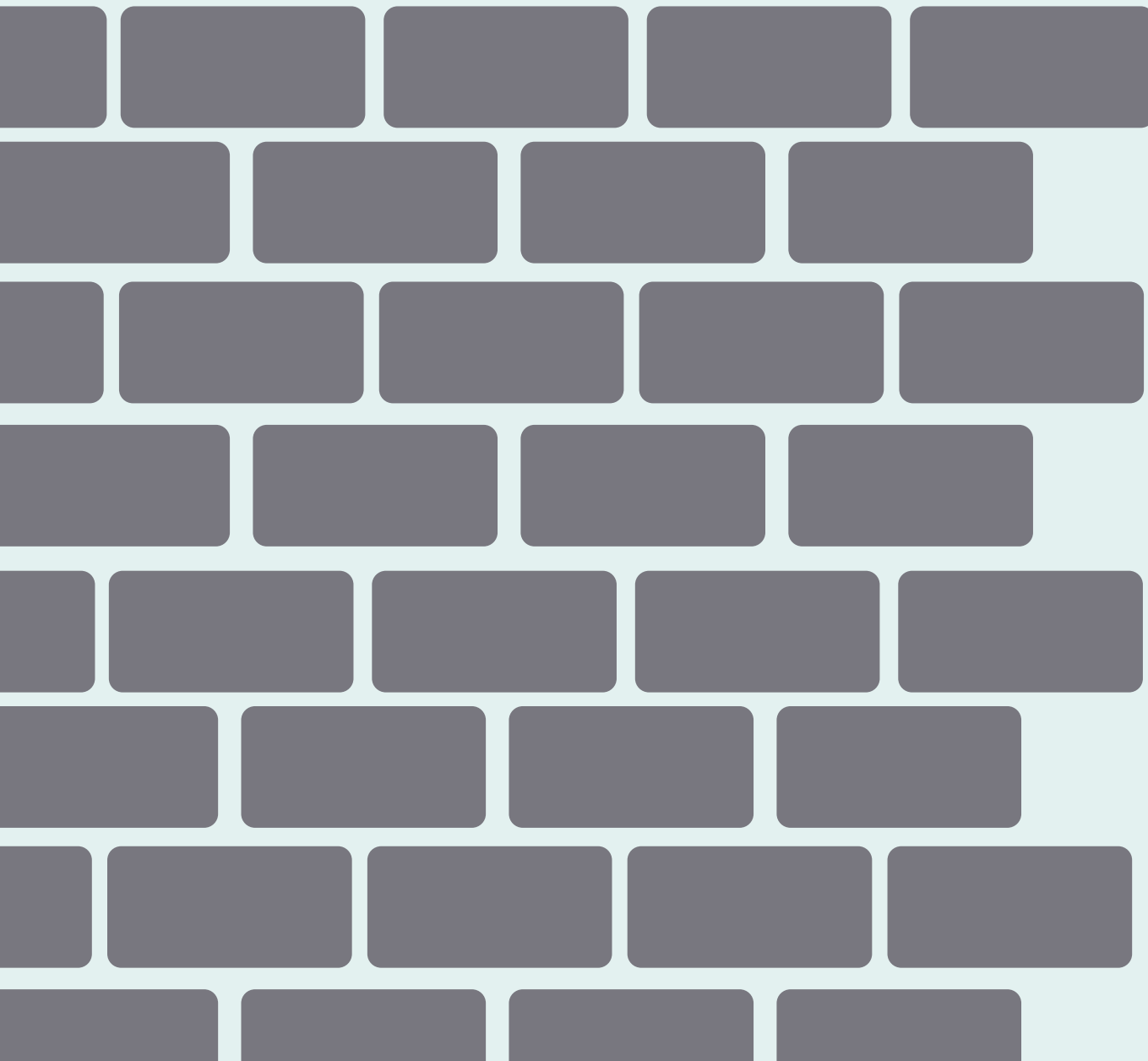


YOGA  
MATS



# INNOVATIVE SOLUTIONS

BUILDING SUPPLIES: E.G.  
BRICKS AND PAVERS



MAKING  
FURNITURE



BUILDING ROADS

# DISCUSSION POINT

**WHAT ARE SOME ITEMS THAT YOU  
COMMONLY RECYCLE?**

# DISCUSSION POINTS

HOW MUCH PLASTIC IS NEEDED FOR EACH ITEM?

WHAT COULD THESE MACHINES BE USED FOR ON A  
LARGER SCALE?

WHAT ARE THE LIMITATIONS OF THE MACHINES?



# ACTIVITY

DESIGN A NEW RECYCLING FACILITY

