



**PLASTIC
RECYCLING AND
ALTERNATIVES**

SOLUTIONS FOR PLASTIC WASTE



Solving Plastic Pollution | Narrated by Sir David Attenborough & Dame Ellen MacArthur



ELLEN
MACARTHUR
FOUNDATION

Sir David Attenborough on tackling plastic waste

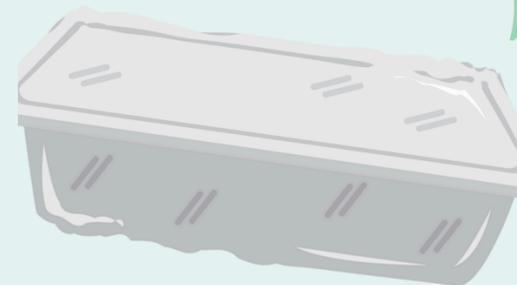


Watch on  YouTube

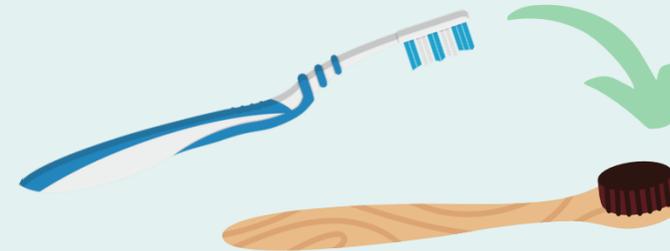
COMMON ALTERNATIVES



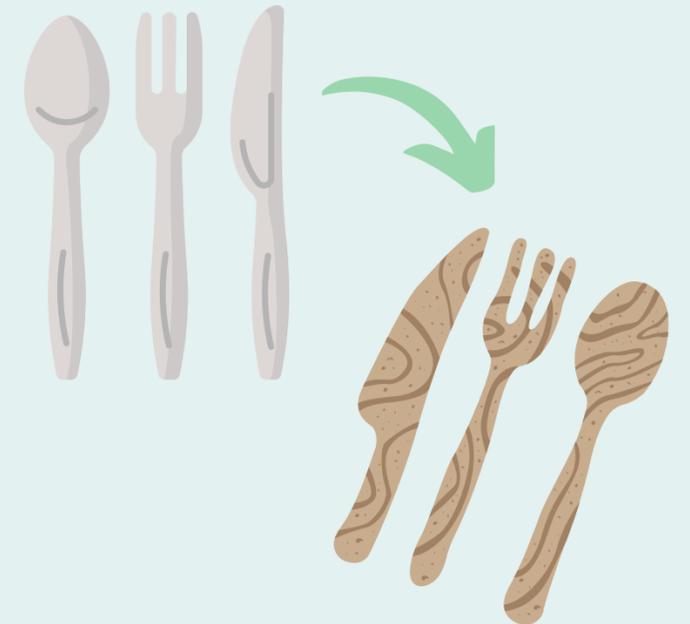
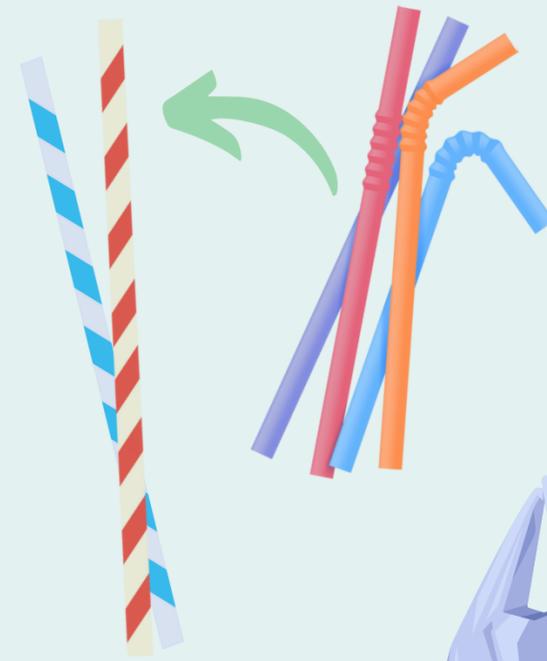
METAL



WOOD



PAPER



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



Just 14% of Global Plastic Packaging is Recycled | A Circular Economy for Plastics



Share

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Explaining a circular economy for plastics



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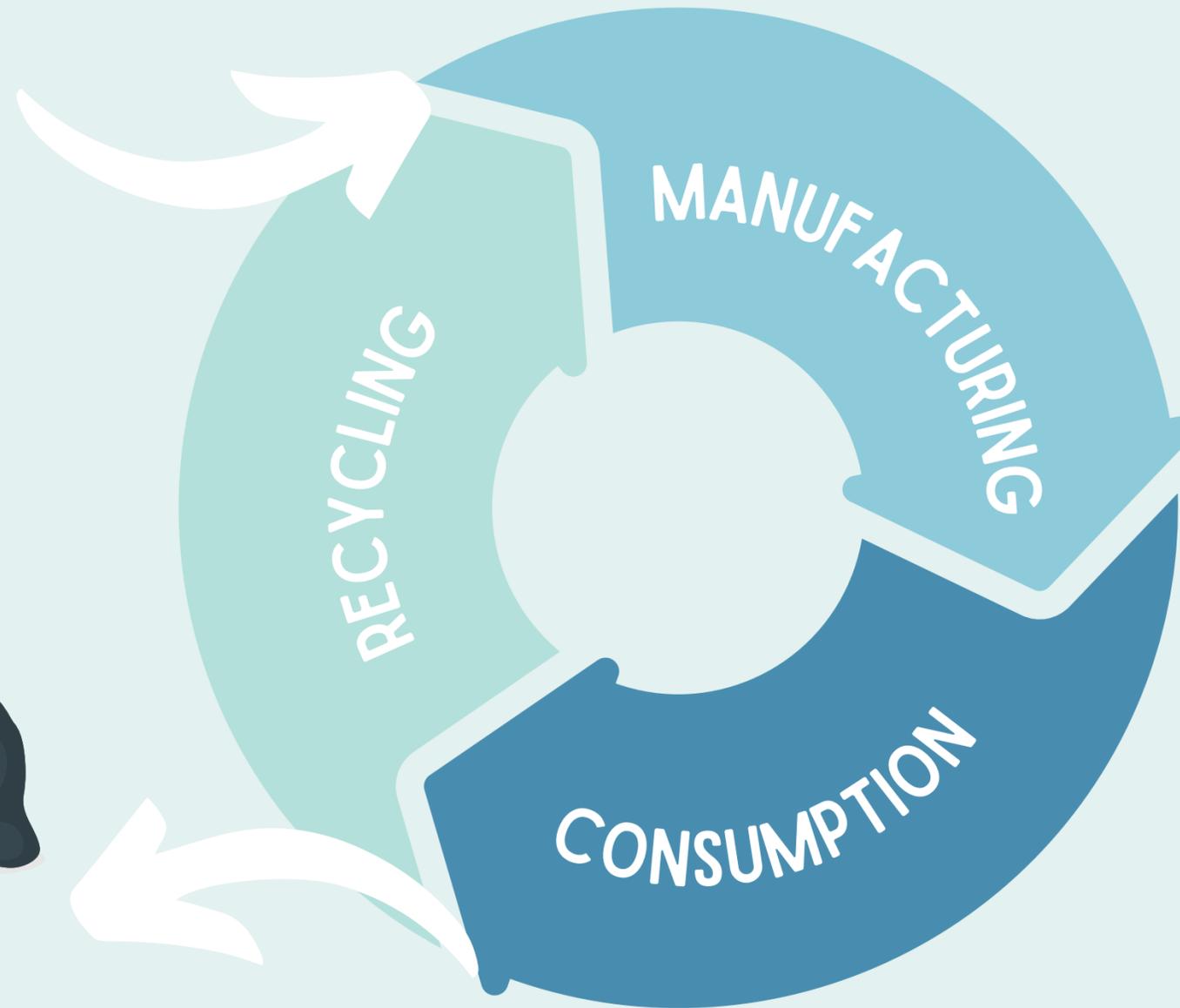
CIRCULAR ECONOMY



RESOURCES



WASTE



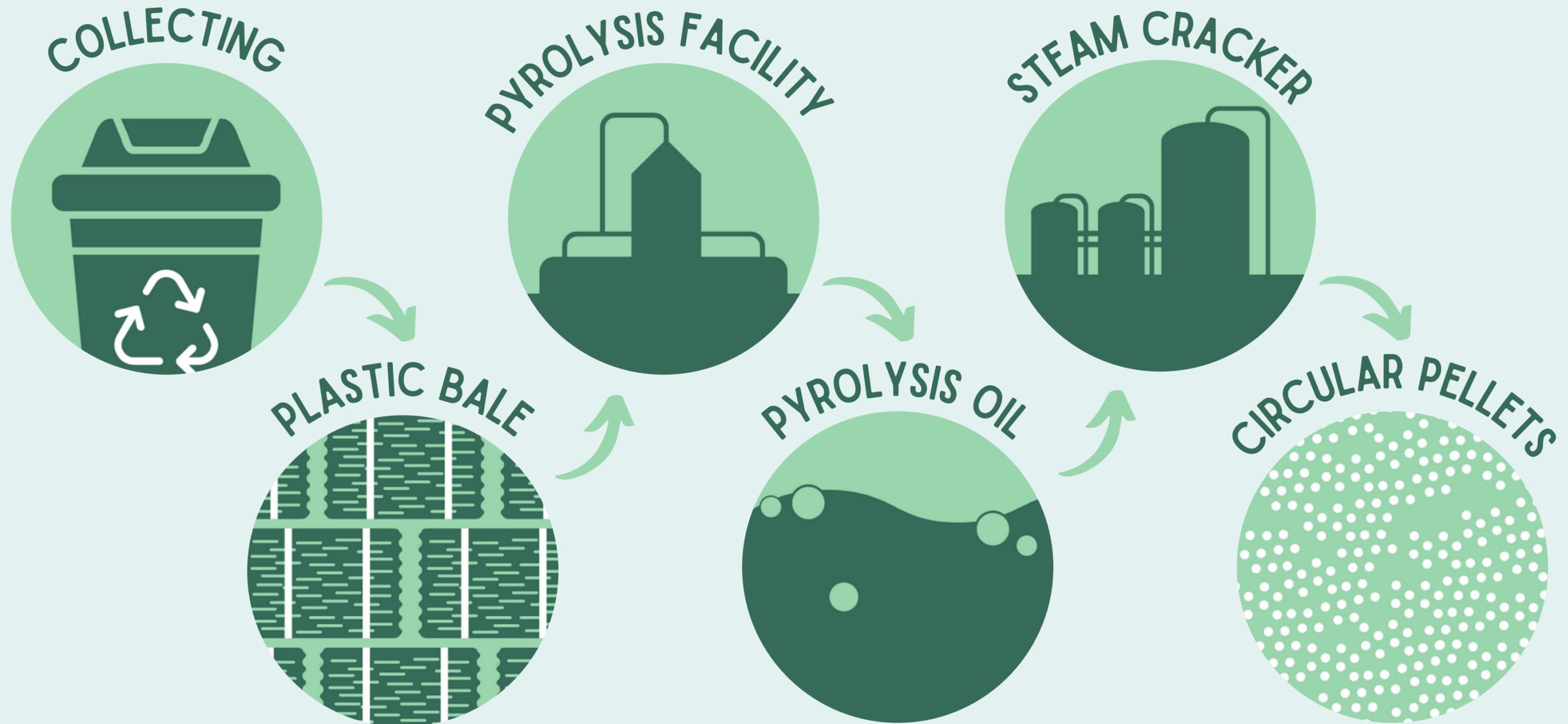
RECYCLING PROCESSES - MECHANICAL

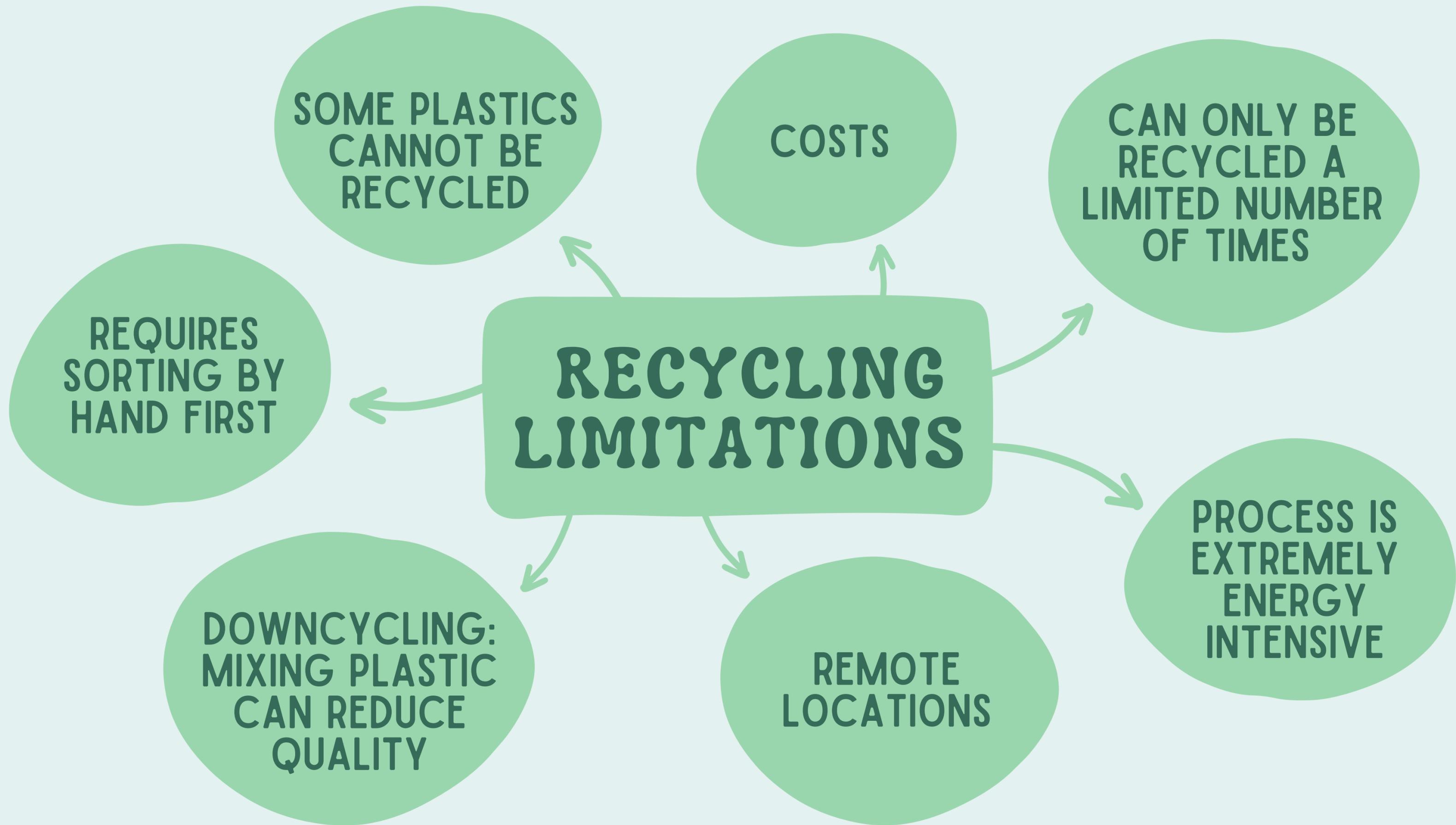
MECHANICAL = SAME POLYMER, NEW FORM



RECYCLING PROCESSES - CHEMICAL

CHEMICAL = CREATES VIRGIN POLYMER





BENEFITS OF RECYCLING PLASTIC

GIVES
PLASTIC A
NEW LIFE

CHEAPER THAN
PRODUCING NEW
PLASTIC

REDUCES
WASTE

LESS CO₂
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



REUSABLE CONTAINERS,
BOTTLES & CUTLERY



WETSUITS



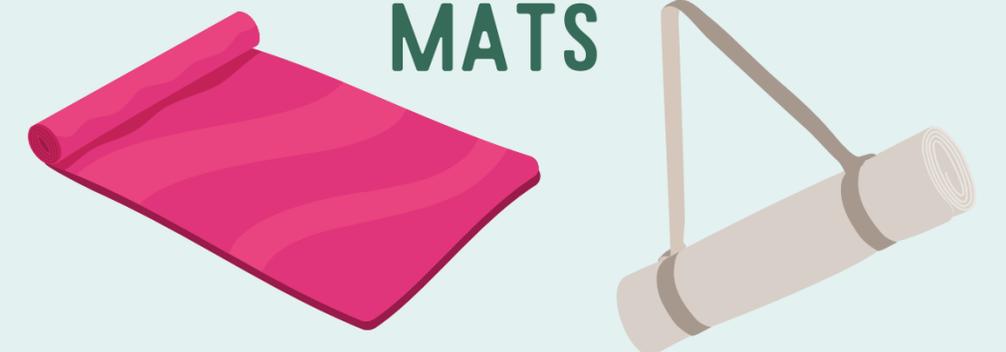
CLOTHING



SOAP & CLEANING
PRODUCT BOTTLES

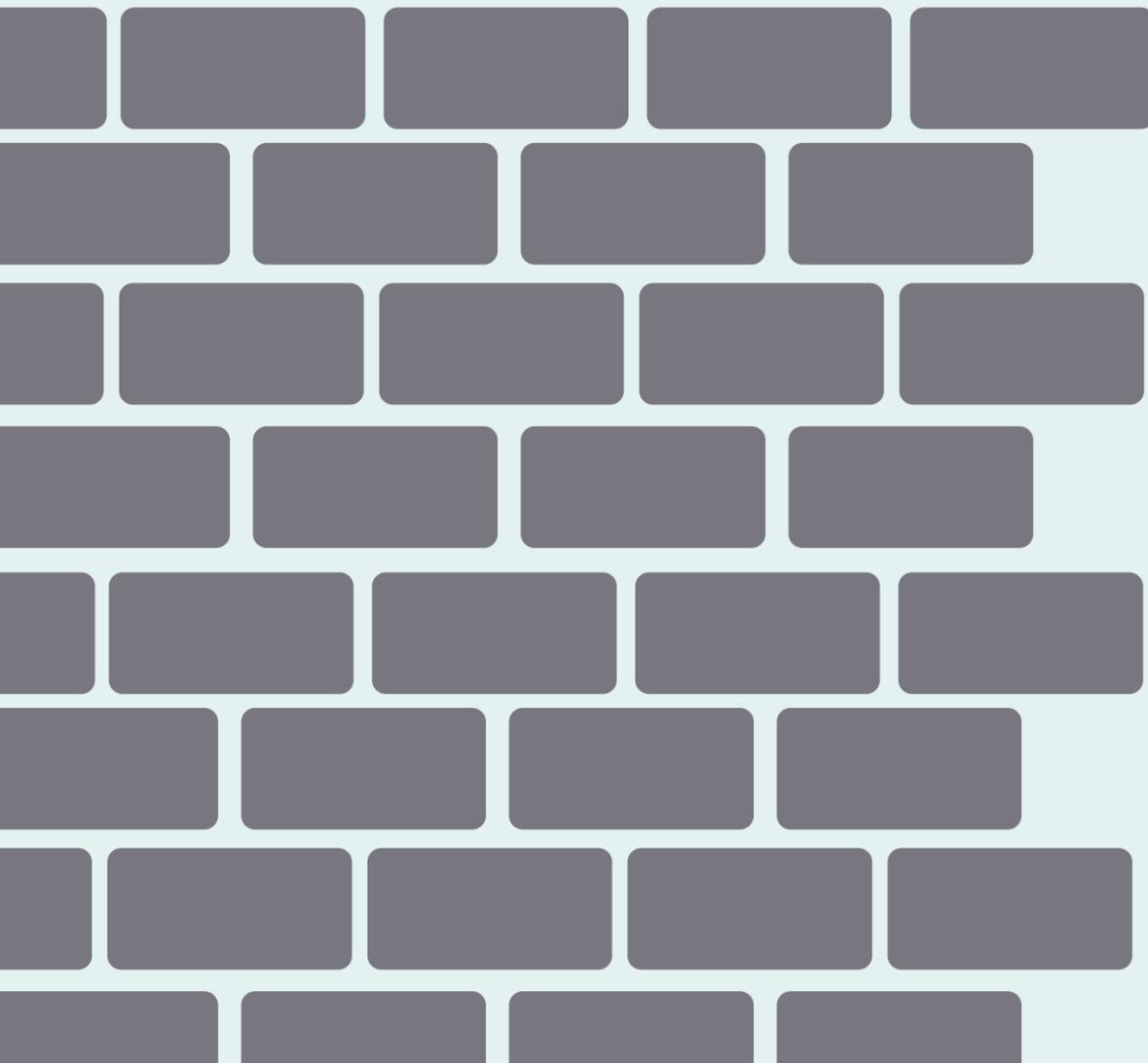


YOGA
MATS



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

