

MICROPLASTIC SOLUTIONS

NAME _____



TAKE A GUESS AT THESE PLASTIC FACTS - TRUE OR FALSE?

- It is estimated that 8 million (8,000,000) tons of plastic waste enters the ocean each year.
- Plastic bottles get weakened by sunlight and torn apart by wind and waves into little bits of micro plastic.
- Plastic confetti is something that every birthday party needs.
- Microplastics can be found in pretty much every ocean around the world.
- Plastic tricks ocean creatures into thinking it's food.
- Every piece of plastic ever made still exists.
- The Pacific Trash Vortex is a new roller coaster at Coney Island in New York.
- 90% of all trash is plastic.
- The amount of plastic we dump into our oceans each year could stretch halfway to Mars.
- Plastic is the perfect material because it's cheap, durable and versatile.
- Phytoplankton make shelters from all the microplastics in the water.
- It is easy to find a solution to clean up the plastic in the ocean.
- WRITE YOUR OWN:

T or F
(pre & post)

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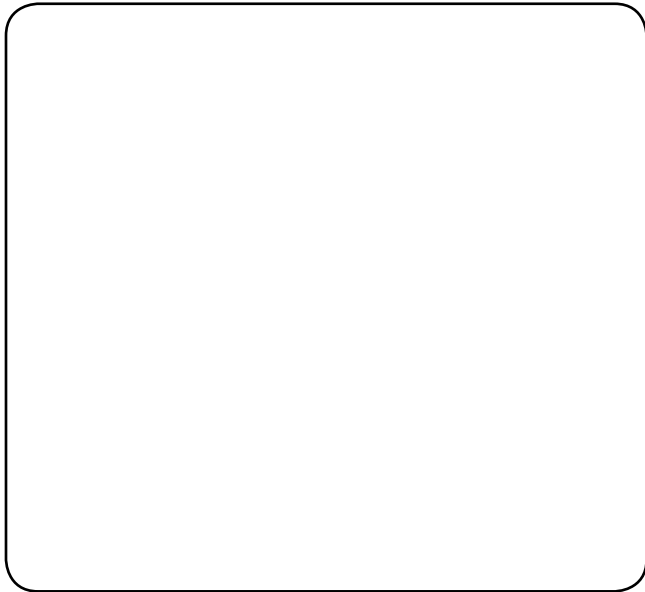
HOW DO YOU THINK PHYTOPLANKTON ARE AFFECTED BY PLASTIC?



PLASTIC REMOVER CHALLENGE

You have been chosen as a superhuman by the Phytoheroes to find a solution to remove the micro plastics from the ocean. You must design an invention that will remove the plastic but not kill the living organisms. Be creative and reflective! You must come up with at least 3 different prototypes to test.

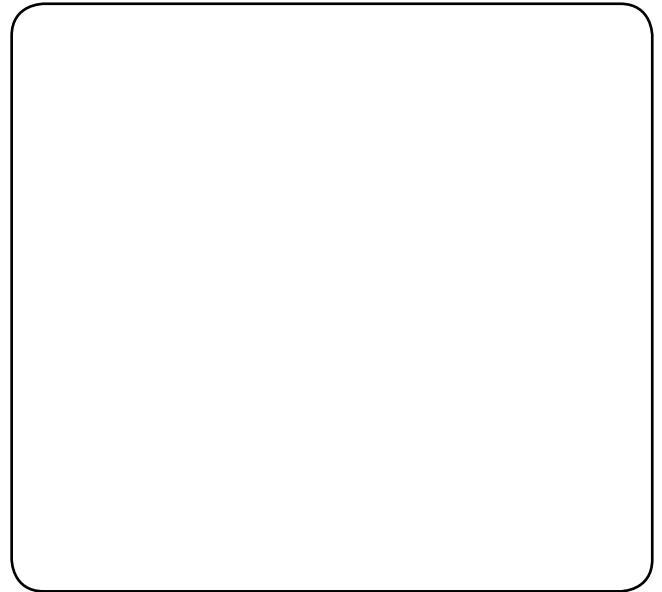
You are limited to the following materials:



Labeled Sketch of Invention #1:

Pros

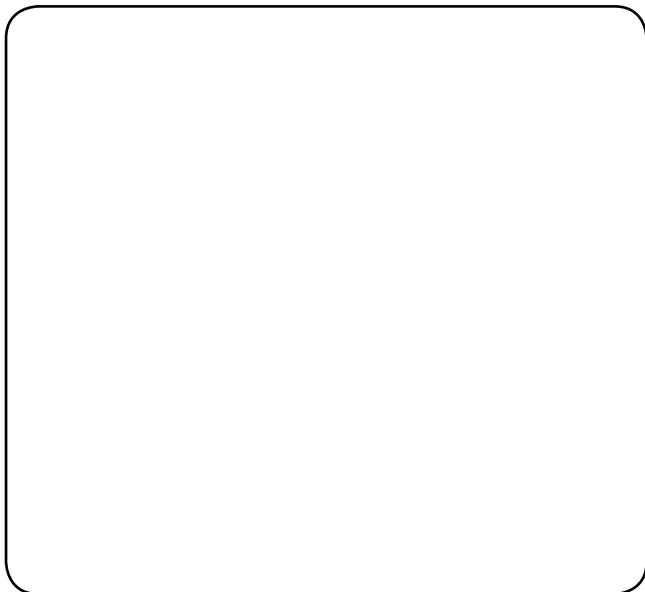
Cons:



Labeled Sketch of Invention #2:

Pros

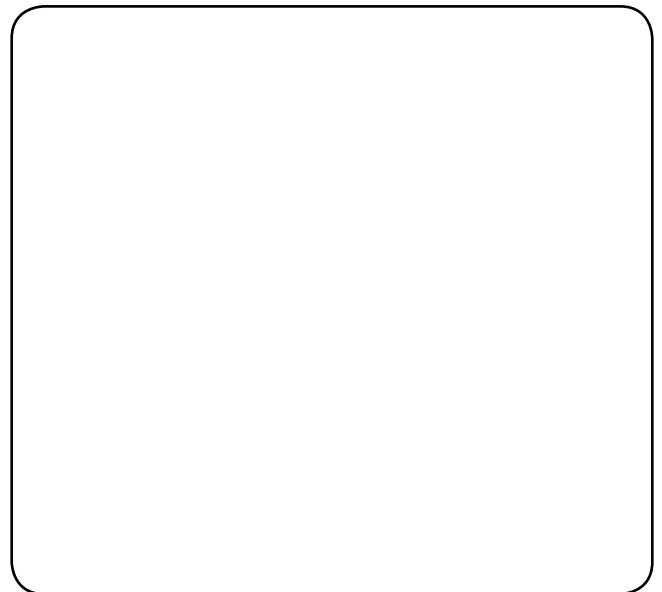
Cons:



Labeled Sketch of Invention #3:

Pros

Cons:



Labeled Sketch of Invention #4:

Pros

Cons: