

More about Engineering

Scientific ideas from investigations and other research are used to understand problems and design solutions.

People's needs and wants change over time.

New solutions might:

- Cause fewer problems than older solutions.
- Meet needs and wants better than older solutions.



Ocean Macroplastic Pollution Problem

Problem

- Plastic pollution from your location is impacting the ocean's ecosystems.

Solution Criteria

- The solution should stop trash from entering moving water, such as a drainage ditch, stream, or river.
- The solution should make it easy to collect trash and remove the collected trash.

Constraints on the Solution

- The solution must be used in your location.
- The cost of solution materials must be within budget.

Fast- and Slow-Moving Water



Fast-moving water

Take 5 seconds to pour about 50 mL of water from the graduated cylinder into the tray.

Slow-moving water

Take 10 seconds to pour about 50 mL of water from the graduated cylinder into the tray.

