

Eco 360 Jr. Invention Plan Worksheet



Eco 360 Jr. Challenge

What is the Eco 360 Challenge?

A challenge inviting all our environmental leaders, dreamers and innovators to develop an innovation plan that incorporates a circular economic model, eliminating plastic waste from our environment. Our economy currently functions in a linear manner which has proven to be unsustainable, resulting in the crisis of plastic waste. We need to reimagine our economy and transition towards a circular economy for plastic - one without plastic waste!

What is an invention plan?

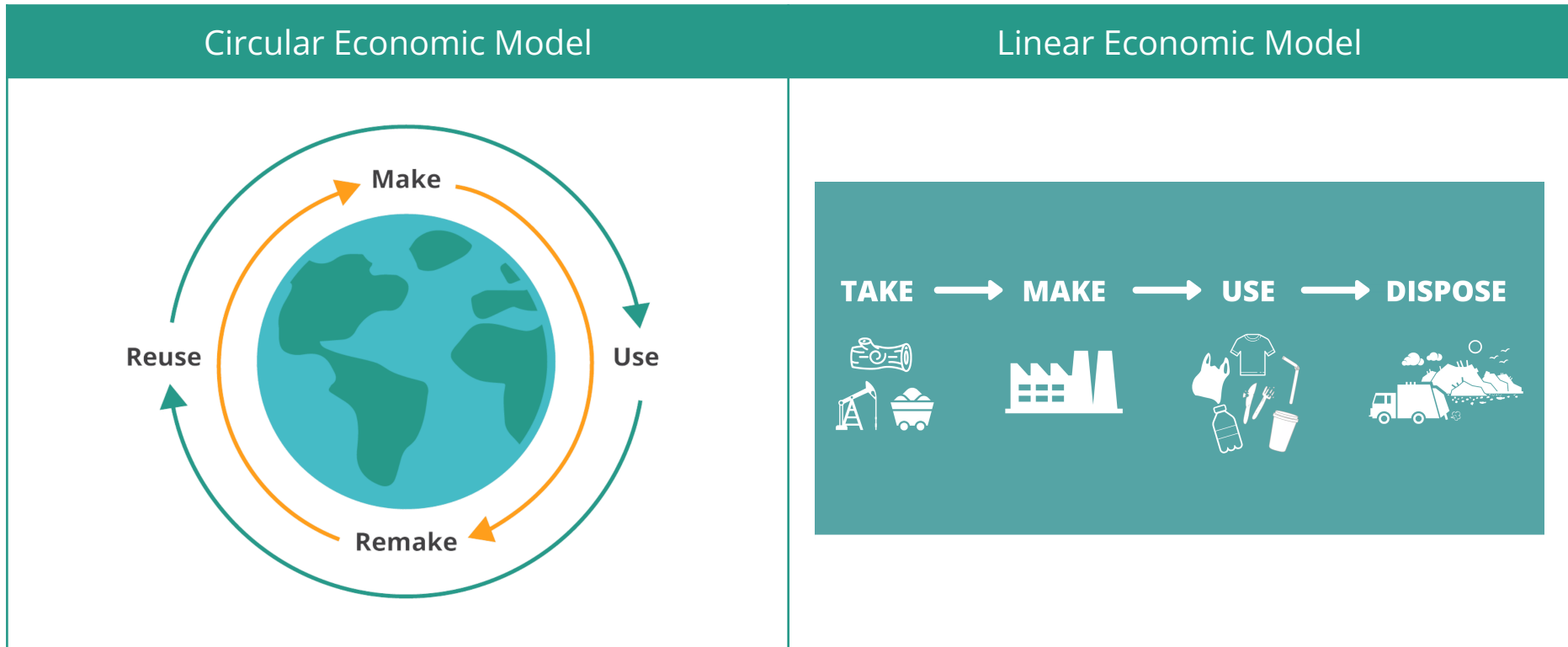
- For the Eco 360 Challenge, we want learners to come up with an idea or invention that can help;
 1. Reduce the amount of plastic waste that ends up in landfills or the environment
 2. Reuses plastic to divert plastic waste
 3. Encourages behaviour change to reduce the amount of plastic needed in our economy

This worksheet follows the model for design-thinking, and will help your learners to refine their thoughts and ideas, and decide upon a solution that is both feasible and impactful.

Eco 360 Jr. Invention Plan

Backgrounder

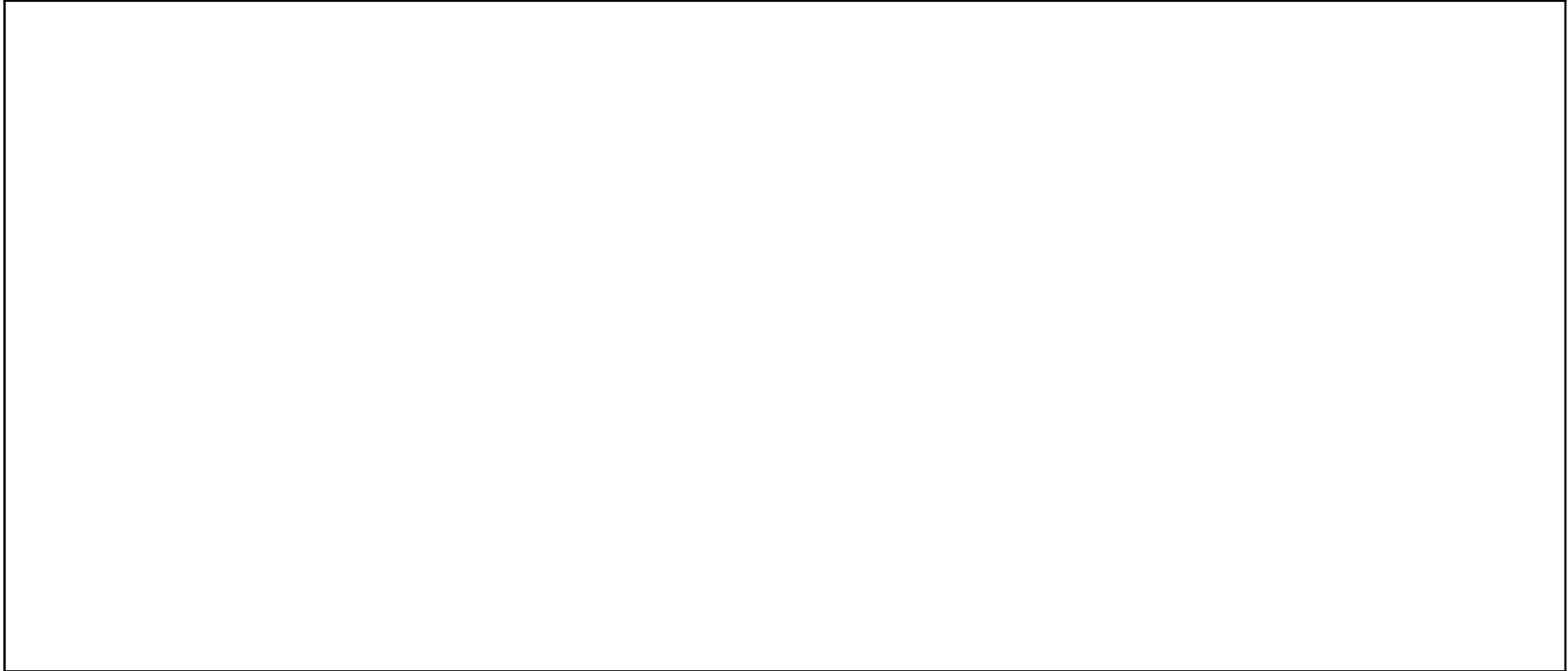
Before diving into writing your Eco 360 Innovation Plan, we encourage you to refer back to the Eco 360 learning activities to recap essential differences between a linear and a circular economy, and how a circular economy solves the problem of plastic waste.



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Empathize - who/what are you trying to help?

Ideas: ocean wildlife, the environment in general, folks affected by poverty, reducing burden on our local landfill

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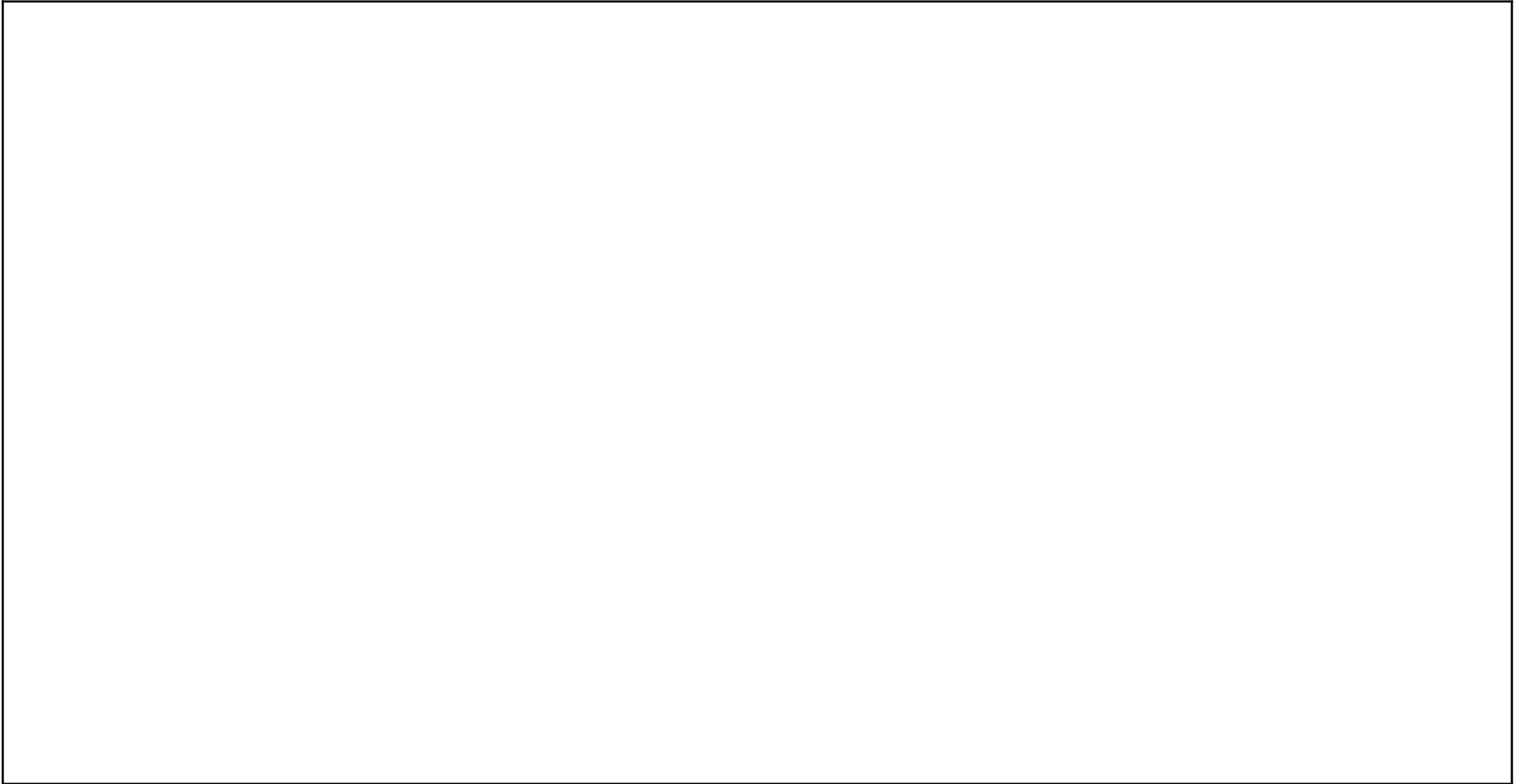
Define the Problem - what is the problem we are trying to solve?

Example: People get takeout food so frequently, and it comes in plastic containers. How might we reduce the amount of plastic containers needed?



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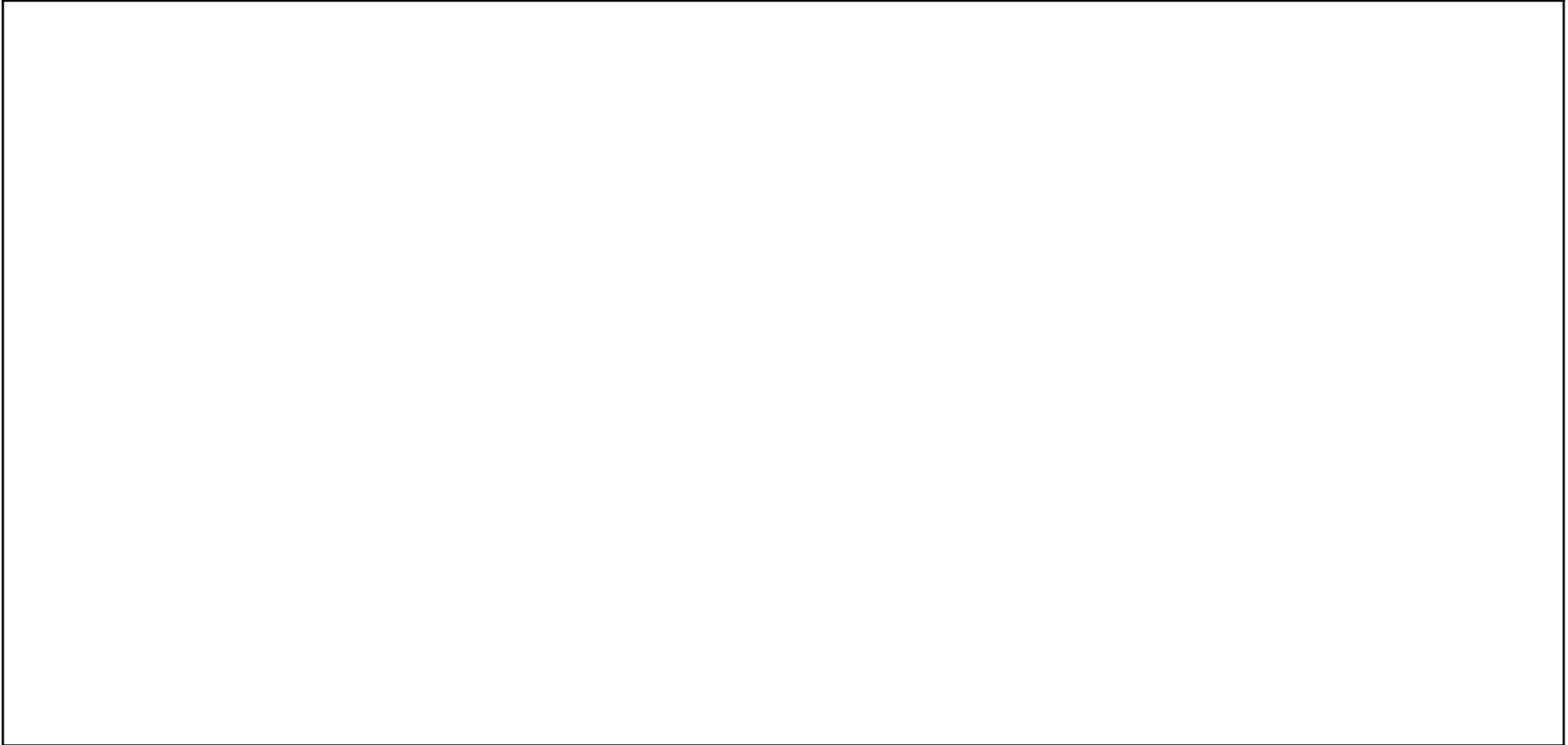
Ideate - what are some possible solutions to the problem?

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Prototype - Which Idea will you try first?

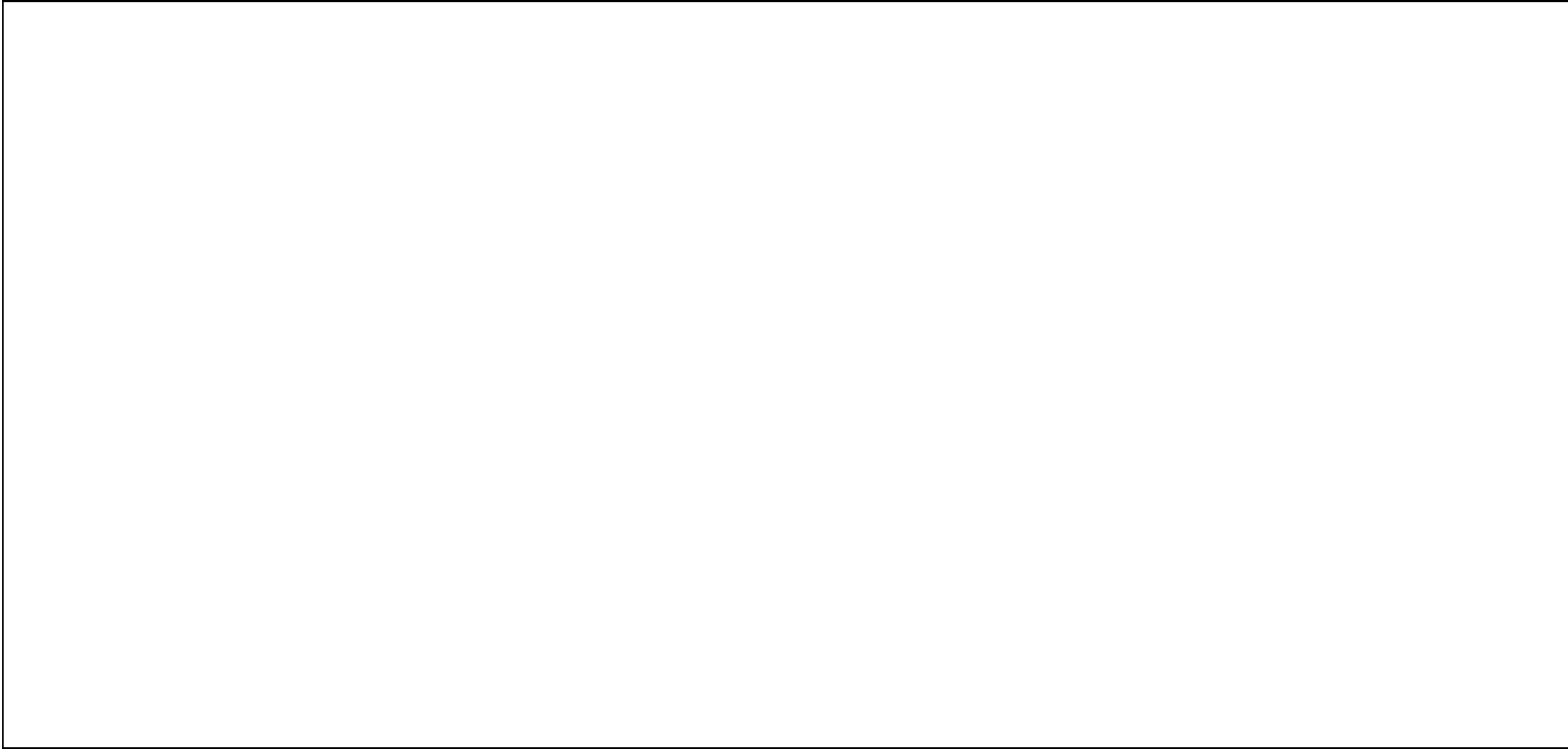
You may choose to create a drawing or schematic as a prototype

A large, empty rectangular box with a thin black border, intended for students to draw or create a schematic of their prototype.

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Final Solution for Plastic Waste

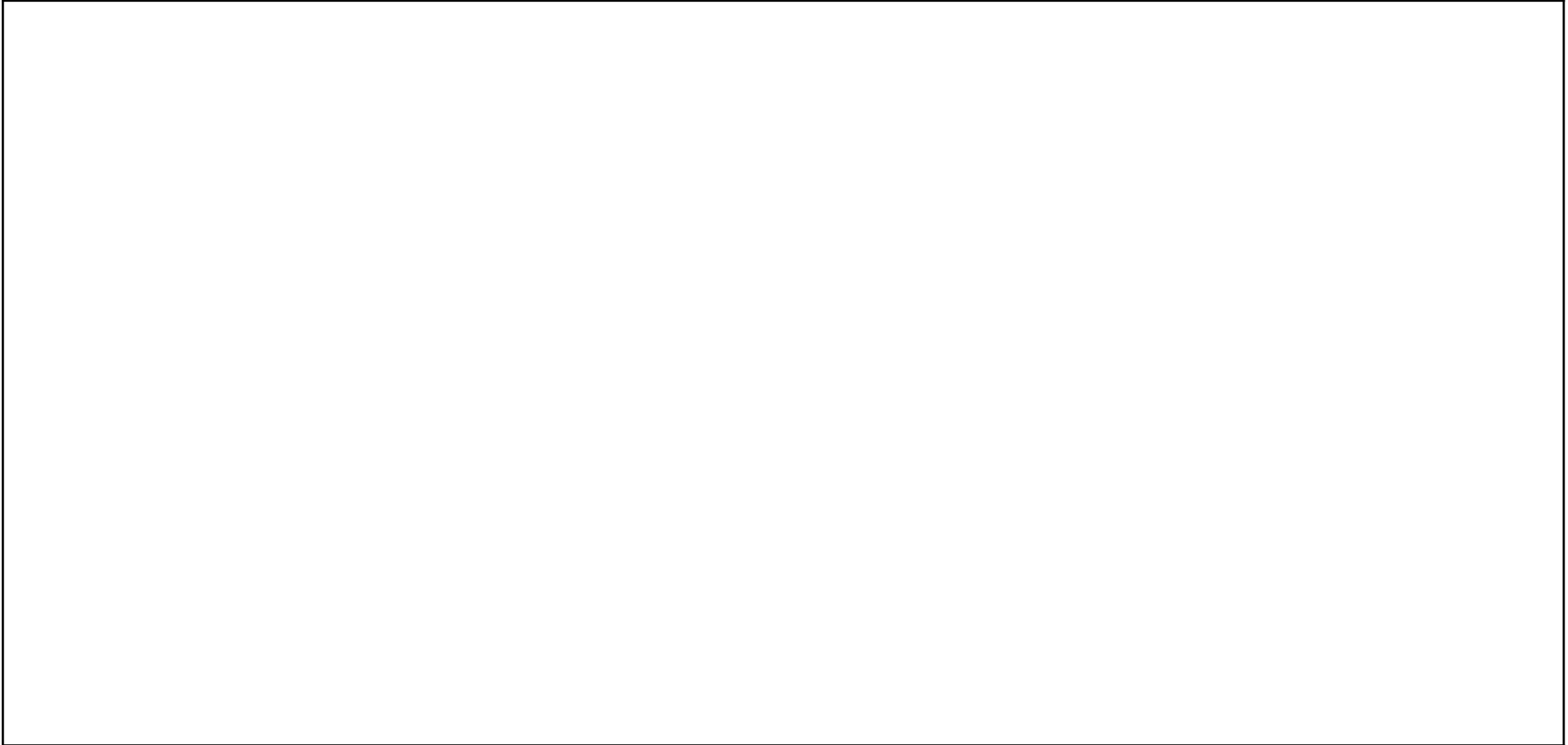
Share the details about your solution.



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Test & Reflect

What works well about your idea? What would you change? How could you make your idea even more impactful at minimizing plastic waste?

A large, empty rectangular box with a thin black border, intended for students to write their reflections on their invention plan.