

Criterion C - Creating the Solution

Ci - Plan

Note: The plan must fit on one page and the timings must add up to 180 seconds

Topic	(Visual) Aids / Actions / Props	Timing (s)
Introduction	Slide 1: Hello everyone. I am Khoi, the only member of Table Turner(s),	5
Our mission	And my mission is to somewhat eliminate plastic bags out of the environment with my recycled shopping bags.	
Our passion	Besides my mission, my passion is to spread awareness and to tackle plastic waste, while also introducing something new for my community.	
Manufacturing process	(Shown in slide) Well, this is my manufacturing process for my products. Feel free to take a few seconds to view it.	

Criterion C - Creating the Solution

C2&C3 - Technical Skills & Final Product

Prop(s)



Slide Deck

My current issue in numbers

- Total amount of plastic produced from the 1950s worldwide: ~390 million tonnes
- Amount of plastic bottles purchased every minute worldwide: About 1 million
- Amount of plastic entering the oceans yearly: ~ 1-2 million tonnes

Image source: National Geographic



Image source: National Geographic

My passion

- To spread awareness
- To tackle plastic waste
- To introduce something new

Image source: Unsplash



Image source: Unsplash

Recycled LDPE plastic material
Made by heat bonding LDPE plastic bags together

Recycled guitar picks
Made by heat bonding LDPE plastic bags together

Aluminium-LDPE composite material (concept phase)
Made by fusing and gluing recycled aluminium with LDPE plastic bags together

On your left of the slide are my current and upcoming projects



Speculations:
Thickness: ~1.5mm
Dimensions: 34mm apex
Shape: Reuleaux triangle
Material composition: Double-sided tape, recycled LDPE plastic bags, recycled 3004 aluminium-manganese alloy

Making process

1. Material preparation
2. Heat molding the plastic core
3. Application of adhesive sheets to increase the bond of the material
4. Fusing the plastic core and aluminium
5. Production of guitar picks by punching the material sheets with a pick punch maker


HDPE

Marketing plan

- Costs of product manufacturing: 0.4 USD
- Retail price: 0.9 USD
- Inquire a full plan [here](#)

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Business Plan Handout

Table Turner(s)

Initial Investment

Item	Cost per item	Qt	Total
Iron	30 USD	1	30 USD
Silicone sheets (3 sheets/pack)	30 USD	1	30 USD
Total required investment			60 USD

First Year Cost

Item	Cost per item	Qt	Total
Aluminium cans (used)	Free	20	0 USD
Plastic bags and bottle caps (HDPE)	Free	50	0 USD
Total yearly running cost			0 USD

First-Year Revenue

Item	Price per item	Qt	Total
Iron repair/replacement (if any)	13 USD (approx.)	1	13 USD
Silicone sheets replacement by packs (if any)	30 USD	1	30 USD
Used aluminium cans	Free	20	0 USD
Plastic bags and bottle caps (HDPE)	Free	50	0 USD
Total yearly income			43 USD

First Year Profit

First-year expected profit (revenue - cost)	40 USD
End of First Yearly Predicted Growth (revenue - cost)/cost	10%