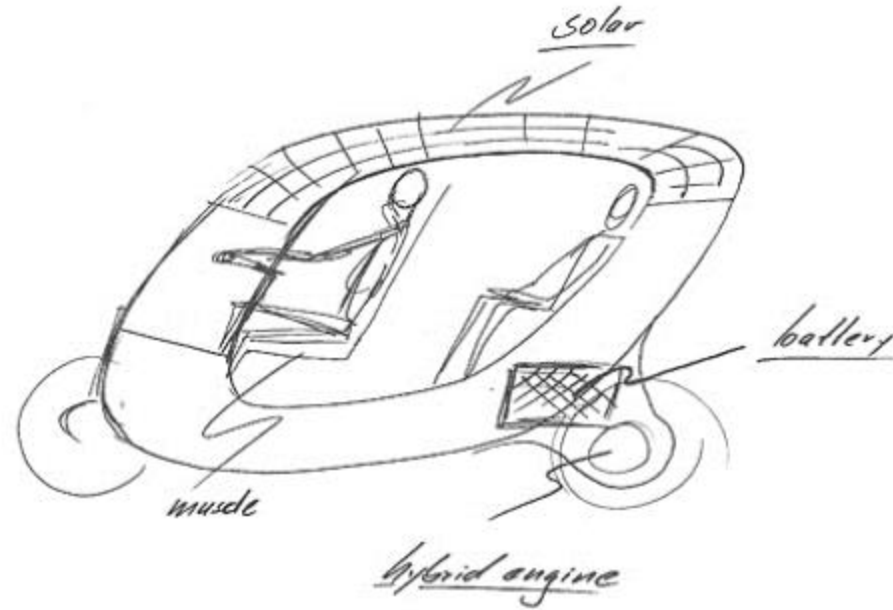




# ASSIGNMENT

BETV<sub>1013</sub>

# RICKSHAW SOLAR POWERED ENERGY



## TASK

Develop a mini rickshaw powered by **SOLAR ENERGY**.

All materials must be provided by students.

Make a short video ( $\pm 2$  min) and post it on **YouTube**. Format: MP4, min 720p (HD).

## GROUP

4 groups (8 students)



## MATERIALS

Rickshaw body must be made by using at least 80% of waste materials (Eg. plastic, paper, etc). The design's concept is based on your own creativity. Each rickshaw must have an 'eye pin hook' at the back of the body (for Tug of War knockout activity)

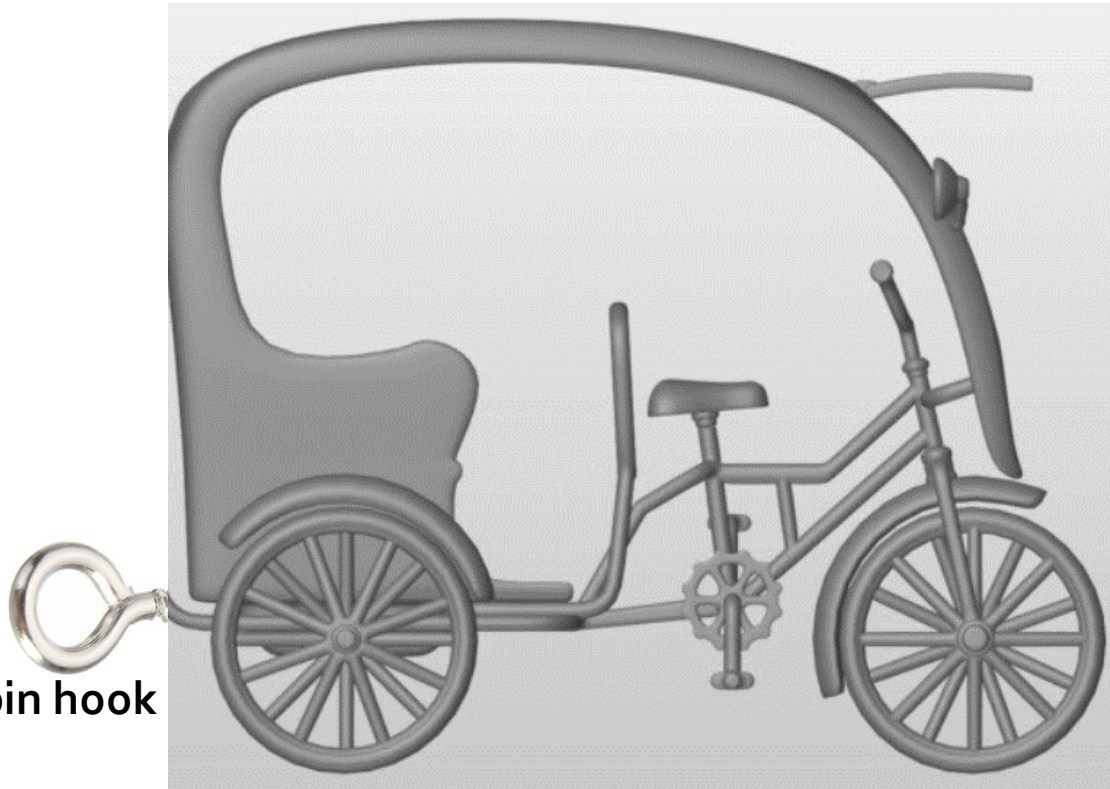


## DIMENSION

Length: min 18 cm to max 20 cm

Width: min 12 cm to max 15 cm

Eye pin hook



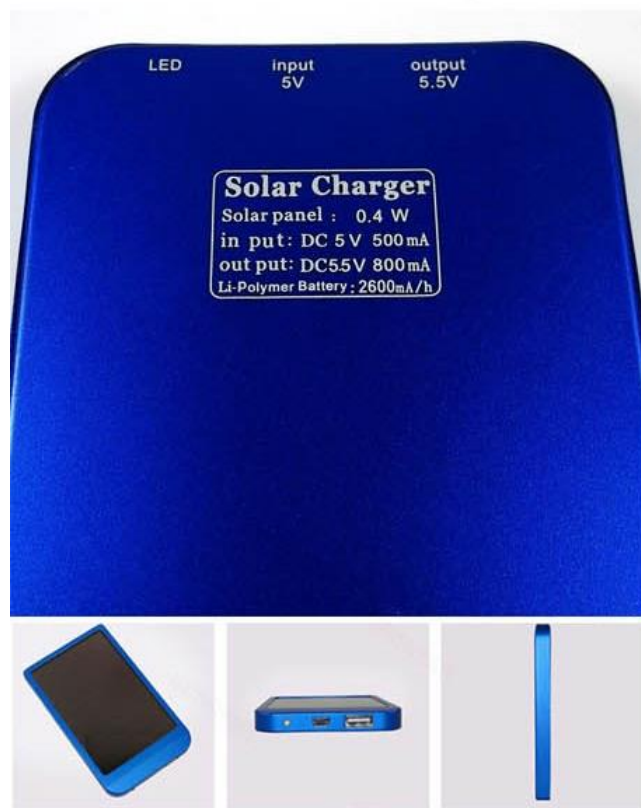
18 cm to 20 cm



12 cm to 15 cm







Seller: ykf

View seller's other items

Trust Level: 8 (9607: 810+,100%)  
View Profile  
Since: Before May 2000

PM / E-Mail Seller  
Favourite Seller [0]  
Ask Question (0)

All Categories >> Electronics & Appliances >> Solar Products >

Portable Solar Power Emergency Battery Charger For iPhone 4S (Free Pos)

BM | 中文 | Report Item

Item ID : 184613700



Sale Price : **RM 12.00**

Shipping : Peninsular: RM0 Sabah, Labuan: RM4 Sarawak: RM2

Contact Seller to buy this

Add to Wishlist (0)

Ship To : Within Malaysia, ship by Courier Services, Self Collect, Others : Poslaju  
Item at : Putra Nilai / Negeri Sembilan  
Views : 692  
Payment Method : Internet Banking, Credit Card, Bank Transfer, Cash on Collection (COC), Others : CIMB  
Available Qty : 3

Seller: beaulife

View all 2298 items

Trust Level: 8 (2302: 101+,97.19%)  
View Profile  
Since: 14 Jul 2016

Visit My Store

Non GST Merchant

PM / E-Mail Seller  
Favourite Seller [0]  
Ask Question (0)

All Categories >> Home & Gardening >> Light & Lighting >

Portable Solar Power 3 LED Lamp Flashlight Torch Charger for Cell phon..

BM | 中文 | Report Item

Item ID : 184408102



Sale Price : **RM 33.20**

Shipping : **FREE SHIPPING**  
Combine Shipping allowed

BUY NOW

Add to Wishlist (0) | NetPay Accepted

Ship To : Within Malaysia, ship by Courier Services  
Item at : China / OTHERS  
Views : 18  
Available Qty : 899

Lelong's Buyer Protection Program  
Your are covered when you pay with NetPay.  
Learn more.

Like Share 0 G+ 0 Tweet

## MARKS

Rickshaw design concept (Product) = 30%

Video = 30%

Race = 20%

Tug of War = 20%

### PRODUCT

1	Idea & Functionality (Creative, original and function)	10 marks	30%
2	Materials (80% recycle materials)	10 marks	
3	Design (Follow specs and size, excellent product quality)	10 marks	

### VIDEO

1	Content arrangement	10 marks	30%
2	Attractive idea, Interesting & Informative	10 marks	
3	Time management (2 min $\pm$ 5 sec)	10 marks	



## Product

Idea & Functionality	highly creative, original, fully function	10
	somewhat conventional, derived from others, fully function	8
		6
	conventional, mostly mimics ideas, not fully function	4
		2
Materials	80% - 100% recycle material	10
	50% - 79% recycle material	8
		6
	< 50% recycle material	4
		2
Design and quality	100% follow specs and size, excellent product quality	10
	80% - 99% follow specs and size, good product quality	8
		6
	< 80% follow specs and size, lack of product quality	4
		2

## Video

Content arrangement	7	8	9	10
Attractive idea, Interesting & Informative	7	8	9	10
Time management (2 min ±5 sec)	7	8	9	10
not 720p	-2			
late submission	-2			

### RACE ( $\pm$ 15-20 meters)

Rank	4	6	8	10	<b>20%</b>
------	---	---	---	----	------------

### TUG OF WAR

Rank	4	6	8	10	<b>20%</b>
------	---	---	---	----	------------

Rank	Marks
Champion	10
First Runner Up	8
Semi Finalist	6
Quarter Finalist	4

## BONUS

Best Product Design: 2 marks

Best Video: 2 marks

Race Champion: 2 marks

Tug of War Champion: 2 marks

# YOUTUBE VIDEO TITLE

UTeM Rickshaw Solar Powered Energy: Group Name  
Eg. **UTeM Rickshaw Solar Powered Energy: IMSYMO**

## VIDEO CONTENT

**Group Name**

**Methodology**

Idea, Drawing, Materials used, Mechanical Mechanism,  
Developing process, working product

**Group Photo**

Submit your YouTube link to:

[imran@utem.edu.my](mailto:imran@utem.edu.my)

before **01.12.2017, 11.59 pm**

\*Please double check your YouTube link  
and make sure it's valid and can be watch directly from YouTube Channel.



Video Sample:

<https://padlet.com/imsymo/greenbeca>

<https://padlet.com/imransyakir/8b0gcw9k181q>



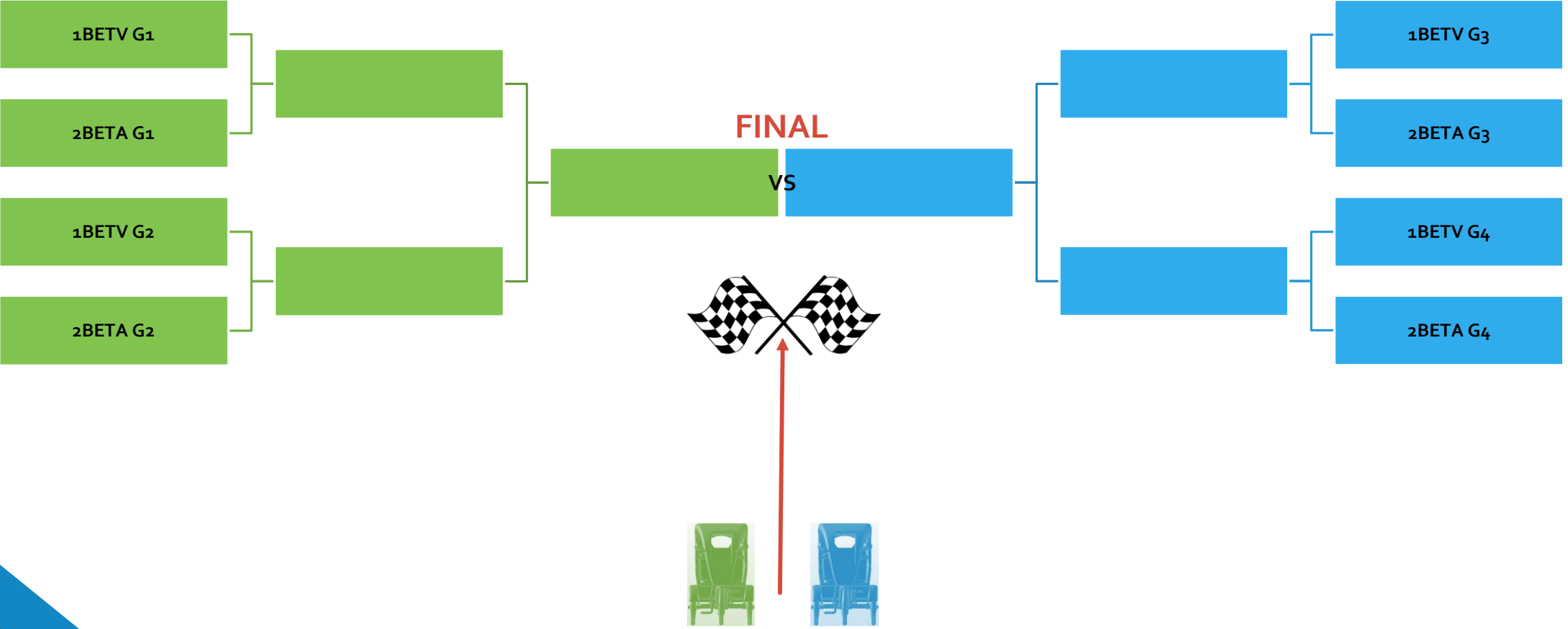


**1BETV**



**2BETA**

RACE KNOCKOUT STAGE



# TUG of WAR KNOCKOUT STAGE

