


B24
Hands-on Workshops –
SDG 11 Sustainable Cities & Communities

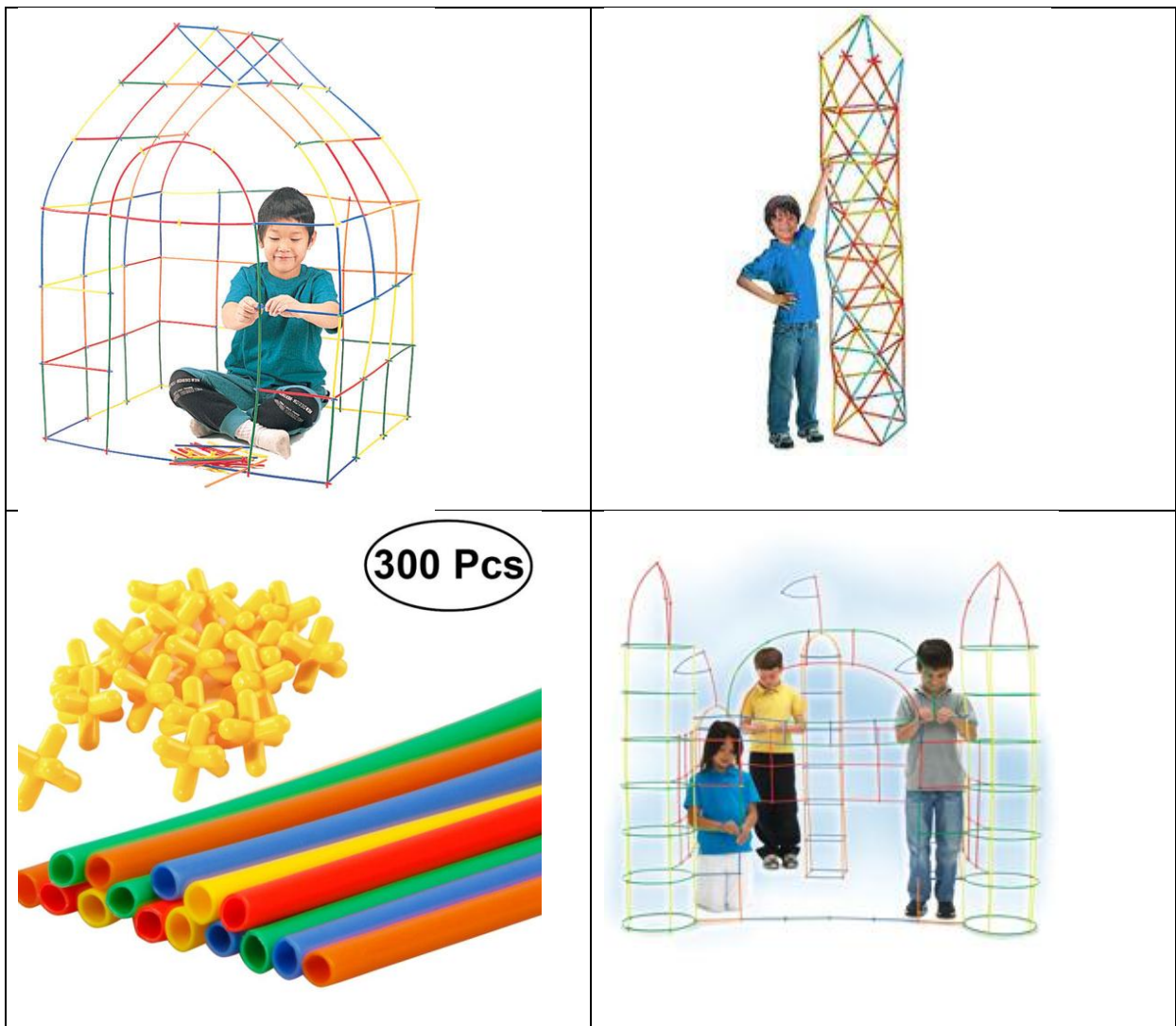
<p>Workshop title:</p>	<p style="text-align: center;">GO GREEN AND FUN ARCHITECTURE</p> 
<p>Workshop owner: (Name of School/ Institution/University/Organization)</p>	<p>Lee Kong Chian Faculty of Engineering & Science/ Department of Architecture & Sustainable Design</p>
<p>Description of workshop: (objective, content, etc)</p>	<p>Activity 1: MY DREAM ARCHITECTURE</p> <p>It is a challenge to create architectural forms using used plastic straws and connectors. It can be a tower, a dome, an arch, a small house and other architectural forms as the kids' imagination.</p> <p>The objectives:</p> <ul style="list-style-type: none"> • To understand architectural structure, form and space • To develop creative thinking through fun activities. • To teach kids a team work <p>Materials provided for each group:</p> <ul style="list-style-type: none"> - 400-800 plastic straws - 100-200 Straw connectorrss - Scissors - Adhesive tape <p>Procedures:</p> <ol style="list-style-type: none"> 1. Participants are given some examples of building to build. However they can build their own imagination. 2. Participants start to build the forms with the maximum size (width, length, height): 1,5m x 1,5m x 1,5m 3. They can take selfie once it is done. <p>Activity 2: BUILD MY HOME</p> <p>It is a challenge how to build a home through component by component started from foundation to roof. It is a home model with 1: 20 or 1:10 scale.</p>

	<p>The objectives:</p> <ul style="list-style-type: none"> • To understand building components such as structural, space, and envelopes. • To develop creative thinking through fun activities. • To teach youth a team work <p>Materials provided for each group:</p> <ul style="list-style-type: none"> • A1 size cupboard base • Polysterene Building components blocks include foundation, column, beam, floor slab, wall, and roof. Each component is coloured differently for easy identification. • Satin pins 1 inch size <p>Procedures:</p> <ol style="list-style-type: none"> 1. Participants are given the instructions and an example of house to build. 2. Participants are given building component blocks and base. 3. The can start to install component by component using pin. 4. They can take selfie once it is done. <p>Activity 3: GREEN MY HOME AND SAVE ENERGY</p> <p>It is a challenge how to go green and save energy at home. Participants will be given puzzle blocks and items of the way how to go green.</p> <p>The objectives:</p> <ul style="list-style-type: none"> • To build the youth awareness about green lifestyle. • To teach the youth that Go Green is not difficult and can be started from home. • To develop creative thinking through fun activities. • To teach youth a team work <p>Materials provided for each group:</p> <ul style="list-style-type: none"> • A1 size cupboard base • House spaces puzzle blocks. • Gogreen tips puzzle blocks • Satin pins 1 inch size <p>Procedures:</p> <ol style="list-style-type: none"> 1. Participants are given the instructions and an example of complete puzzle. 2. Participants are given puzzle blocks and base. 3. The can start to arrange the puzzle. 4. They can take selfie once it is done.
Age group:	7-12 years old (Activity 1) 13-17 years old (Activity 2-3)
Group size:	3 – 4 persons x 6 groups
Number of session:	9 sessions per day

KLESF: The Fair 2019, 1-3 November 2019 MIECC
Registration Form

Duration per session (eg. 30 minutes):	45 minutes per session
Time (eg. 9.00am – 9.30am):	9.00 am – 9.45 am 10.00 am – 10.45 am 11.00 am – 11.45 am 12.00 pm – 12.45 pm 1.00 pm – 1.45 pm 2.00 pm – 2.45 pm 3.00 pm – 3.45 pm 4.00 pm – 4.45 pm 5.00 pm – 5.45 pm

Activity 1: MY DREAM BUILDING CHALLENGE





Activity 2: BUILD MY HOME



Building components:

- Foundation: red
- Column: grey
- Beam: brown
- Floor slab: yellow
- Wall: blue
- Roof: green
- Ceiling: pink

Main materials:

Honeycomb cardboard for column, beam and foundation	Corrugated cardboard for floor slab and puzzle base
	

Activity 3: GREEN MY HOME AND SAVE ENERGY

MAKE YOUR HOME GREEN
Block Game

SAVE ENERGY, SAVE THE EARTH

Roof
Lighter Tile Color energy saved, up to: **65%**

Attic
Proper Insulation energy saved: **26%**

Bedroom
Automatic Light Dimmer energy saved: **15%**

Bathroom
Hot Shower Instead of Hot Bath energy saved: **20%**

Office
Programmable Blinds energy saved: **20%**

Family Room
LED Backlit LCD TV energy saved: **50%**

Garage
New Ventilation Fans energy saved: **60%**

Kitchen
Energy Star Fridge energy saved: **30%**

SOURCES:
househunt.com/news-realstate/
New York Times
BitRebels

HouseHunt.com

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