



TINKER CAMP (DEC 2019)

ABOUT TINKER CAMP:

Science Centre Singapore's 2D1N *TINKER CAMP* at the Tinkering Studio returns for this June School Holiday! We are back and this time will be focusing on STEM woodwork workshops like Geoboard, Pinball machine and working with CNC machine. We will end up the camp with participants prototyping their own carnival games.

Get ready, set and tinker!

Set-up in collaboration with San Francisco's Science Centre, The Exploratorium, The Tinkering Studio encourages creative learning and exploration.

The hands-on nature of *TINKER CAMP* brings out the essentiality of science and engineering in everyday settings. Campers will be introduced to working with real tools, like soldering iron, drill, hand-saw, hot glue gun, hammer, etc., under the expert supervision of our Chef Tinkerers.

Apart from learning STEM (Science, Technology, Engineering and Mathematics) topics, *TINKER CAMP* builds a foundation of innovation, social scaffolding, and teamwork for these tinkerers who will one day pave a future of collaboration, sustainable living and confident inventors of society.

TARGET AGE GROUP:

9 – 12 years old

DATES:

06 -07 Dec 2019 (Friday – Saturday)

DURATION:

2 Days, 1 Night: 9:00am (Friday) – 3:00pm (Saturday)

COST:

\$400 per participant (excluding 7% GST)

NUMBER OF PARTICIPANTS:

Minimum: 15 pax

Maximum: 20 pax (Registration closes once we have 20 participants)

QUESTIONS:

E-mail Mr Shah at Shahrudin_KASMURI@science.edu.sg or contact him at 6425 2524.





ITINERARY (1)

Day 1

TIME	DESCRIPTION					
0900	Welcome to Science Centre Singapore					
0930 - 1100	Wooden Keychain Like programming or writing, drawing is a skill that lets people express ideas. Unleash your creativity with Inkscape to customise your own wooden keychain and carve it out on a Computer Numerical Control (CNC) machine.					
1100 - 1230	DIY Geoboard Create your own Geoboard from scratch using plywood and nails. Use rubber bands to create line segments and polygons and make discoveries on mathematical topics like area, angles, perimeter, fractions, congruency and more.					
1230 - 1330	Lunch					
1330 - 1530	Wooden Pinball Be a young Mechanical Engineer and create your Pinball Machine that launches a ball and sends it through an obstacle course. Build a challenging and exciting game that will keep people coming back again and again to play.					
1530 – 1630	Living Worlds – An Animal Planet Experience Visit the Centre's year end exhibition which leverages on Animal Planet's rich video footage to illustrate the impact of human activity on the rich diversity of Earth's wild places and their inhabitants. Living Worlds also reminds visitors that environmental change begins with the individual - our collective actions have an impact every bit as powerful as that of governments policies and NGOs.					
1630 - 1730	NeoPixel - Micro:bit Programming Program the Microbit chipboard to drive NeoPixel LEDS. Display your programming skills by illuminating your Cruller Lamp using this 24 multicolor LEDS. Campers will receive a set of Microbit and Neo Pixel chipboard each to bring home.					
1730 - 1830	Dinner					
1830 - 2000	Cruller Lamp Shades Make your own lamp shades, lantern, chandelier or table lamp. Craft wooden materials into geometrical shapes and stylishly twisted it resembling a braided torpedo.					
2000 - 2030	Night Walk					
2030 - 2100	Shower					
2100 - 2300	Movie time Be inspired by a journey of friendship, creativity and overcoming challenges.					
2300	Catching Zzzzs					





Day 2

TIME	DESCRIPTION
0730 - 0830	Electronics Fun-damentals Workshop Learn about the key electronic components and their functions in a circuit. Understand the essentials of electronics through customising your own flexible LED strip.
0830 - 0930	Wash-up and Breakfast
0930 - 1200	Fun Fair Carnival I Campers will be challenged to create their own Fun Fair games station. Equipped with hands-on skills, campers will create their game stations for an indoor or outdoor carnival.
1200 - 1300	Lunch
1300 - 1430	Fun Fair Carnival II * Step into the world of carnival games developed by our Junior Chef Tinkerers. They will showcase their prototypes of STEAM concepts that has been accumulated throughout the Tinker Camp. Families are invited to join their carnival of joy and try their gaming stations.
1430 - 1500	Award Ceremony
1500	Goodbye Junior Chef Tinkerers

Note: Programmes are subjected to change due to unforeseen circumstances





ITINERARY (2)

*Families are invited to engage in the carnival stations. Families are to arrive at 2.00pm. 2 complimentary tickets per participant will be issued. Any additional family members, standard charges to the Centre applies.

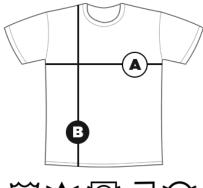
Terms and Conditions

- 1. Registration form and cheque can either be mailed to the Science Centre or dropped off at the Visitor Services Centre during office hours by **15 Nov 2019**.
- 2. Price includes Science Centre admission, all meals and conducted workshops stated in the itinerary.
- 3. Programme is available on a first-come-first basis and will commence with the minimum of 15 participants. #
- 4. Confirmation of camp will be made known by 18 Nov 2019 via email or phone.
- 5. Fees paid are non-refundable after **15 Nov 2019**. However, replacement of participant are permitted.
- 6. In the event of wet weather, The Tinkering Studio reserves the right to replace affected outdoor programmes with indoor programmes deemed suitable.

CAMP SHIRT SIZE CHART

Size	Width (A)	Length B
XS (3/4)	32 cm	42 cm
S (5/6)	36cm	46 cm
M (7/8)	40 cm	52 cm
L (9/11)	42cm	55 cm
XL (12/14)	45 cm	59 cm











TINKER CAMP DEC '19 BOOKING FORM

FOR TINKER CAMP PARTICIPANT									
NAME OF PARTICIPANT:									
AGE: GENDER: M / F		GENDER: M / F	SCHOOL:	SCHOOL:					
T-S	HIRT SIZE:	•	DIET CONSIDERATION & FOOI	T CONSIDERATION & FOOD ALLERGIES:					
XS /	'S/M/L/	XL	NORMAL / VEGETARIAN / HAL	AL / O	THERS:				
ALL	ERGIES ANI	O/OR REQUIR	MEDICATION:						
ME	DICAL DEC	LARATION							
						If Yes, please give details (state			
				NO	YES	medical condition, consulting doctor, current medical condition, etc)			
1.	Has your	child / ward	ever been told he/ she had						
	, .		from or received treatment for						
	-	problems suc							
	• •	e, high blood p ur or any relat	ressure, chest discomfort, heart						
		-	eathing complaints?						
			ers or disabilities not mentioned						
	above		ers of disabilities flot mentioned						
			operation or treatment in the						
			ntioned above?						
2.	-	•	ad or been advised to have any						
	-	tests such as:	·						
		•	sound, biopsy or blood screen?						
	(e) Any of	her tests not	nentioned above?						
	DADENIT	U. F.O. A. I. O. I. A. I	DIAN						
	K PAKENT <i>)</i> ME:	LEGAL GUAF	DIAN		DELA	TION TO CHILD:			
IVA	VIE.				RELATION TO CHILD:				
НО	ME NO.:	MOI	ILE NO.:		EMAIL:				
AD	DRESS:				POSTAL CODE:				
ADDIESS.									
Boo	king and Pa	ayment Proce	lures						
	_	-	form should reach us by 15 Nov 20)19 .					
	2. Please	email Bookin	g Form to shahrudin_kasmuri@s	cience	e.edu.s	sg and return the original copy			
	with a	crossed cheq	ue made payable to Science Cent	re Boa	ard for	the sum of SGD 428 (7% GST			
	includ	included) to:							
	c/o Shahrudin Kasmuri								
	Science Centre Singapore								
	15 Science Centre Road, Singapore 609081								
	3. Registration form and cheque can be mailed to the Science Centre or dropped off at the Visitor								
	Services Centre during office hours before 15 Nov 2019 .								





Date

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Cancellation

1. # In the case of cancellation of camp, cheques will be returned.

Signature

Disclaimer

Any person who takes part in Tinker Camp does so entirely at his/her own risk and shall be deemed to have understood the risks associated with Tinker Camp. Science Centre Singapore, their employees and agents will take all necessary precautions to ensure the safety of the participants but shall <u>not</u> be responsible for any death, personal injury or damage howsoever sustained or arising out of his/her participation in Tinker Camp. Science Centre Singapore shall, in any circumstances and at their sole discretion, provide such immediate first air and/or medical treatment as it shall deem reasonable and at their expense. Any such immediate first aid and/or medical treatment rendered shall <u>not</u> be taken as an admission of liability in any way for any personal injury howsoever sustained or arising. Photographs taken during Tinker Camp may be used for future promotional materials (printed/electronic) by Science Centre Singapore.

Summarised timeline of Tinker Camp application 15 Nov '19 (Fri) 18 Nov '19 (Mon) 6 - 7 Dec '19 Completed Confirmation of Tinker Camp booking form successful •9:00am (Friday) and cheque to booking of - 3:00pm be sent to Tinker Camp (Saturday) Science Centre •Fees are non-Singapore refundable Parent / Guardian Consent _ (parent / guardian), NRIC/FIN no. _ acknowledge the information regarding the above mentioned activity and hereby * give consent / do not give consent to his/ her participation for the Tinker Camp held on 6 -7 June 2019. I confirm that I am not aware of any medical conditions (other than those mentioned above) which may prevent my child/ ward from participating fully in all the activities.