



TINKER CAMP (DECEMBER 2018)

ABOUT TINKER CAMP:

Science Centre Singapore's 2D1N *TINKER CAMP* at the Tinkering Studio is back again for the fifth time! We are back with more, from brainstorming workshops to 3D printing and prototyping our own mini-golf course. We are also including a Greek Exhibition tour. Ready, set, 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 STEAM (Science, Technology, Engineering, Art 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:

07 – 08 December 2018 (Friday – Saturday)

DURATION:

2 Days, 1 Night: 9:00am (Friday) – 2:00pm (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 Ms Fatin at Fatin IESA@science.edu.sg or contact her at 6425 2524.





ITINERARY (1)

Day 1

TIME	DESCRIPTION					
9.00 am	Welcome to Science Centre Singapore					
9.30 am	3D Printing					
	Realise your 2D imaginations into 3D forms! Infuse creativity with the help of					
	software to create and personalise your own name tag.					
11.10 am	Marble Run Sculpture					
	From a marble maze to a marble roller coaster, create an epic marble adventure					
	using recycled materials in this engineering challenge.					
12:30pm	Lunch					
1:30pm	Paper Circuitry					
	Using copper tapes, LED and coin battery, re-discover electricity; explore switches,					
	parallel and series circuitry.					
3.00pm	Greek Exhibition					
	Get inspired by over 40 inventions of Ancient Greece in Ancient Greek Technology					
	Travelling Exhibition.					
4.00pm	Cardboard Automaton					
	Combining mechanical movements and story-telling, this playful machine covers					
	topics such as cams, levers and linkages.					
5.30pm	Dinner					
6.30pm	Luminous Lantern					
	From making the lantern structure to the light switch to designing the type of					
	shadows the lantern will portray; topics of STEAM (science, technology, engineering,					
	arts and mathematics) will be explored.					
8.00pm	Night Walk					
	A test of courage and friendship in this thrilling twilight adventure as we wander Eco-					
	Garden in a different light.					
9.30pm	Shower and Supper					
10.30pm	Movie time					
11.00pm	Catching Zzzzs					

Day 2

TIME	DESCRIPTION				
7.30am	Wash-up and Breakfast				
8.30am	Scribble Bot				
	Create a robot that scribbles unpredictable patterns using an offset motor.				
9.30am	Mini Golf Course (Part I)				
	Think creating a mini golf course is child's play? It is child's expression accompanied by				
	the mechanical, electrical and structural engineering concepts learnt throughout the				
	camp.				
11.30am	Lunch				
12.30pm	Mini Golf course (Part II)				
	Continuation of golf course creation.				
1.30pm	Mini Golf championships *				
	Tee off in our indoor mini golf course designed by our junior chef tinkerers.				
2.00pm	Goodbye Junior Chef Tinkerers				

Note: Programmes are subjected to change due to unforeseen circumstances





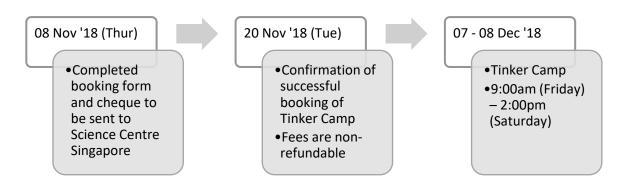
ITINERARY (2)

*Parents are invited to Inventor's Exhibition. Parents are to arrive at 1.30pm. 2 complimentary tickets are given per participant. 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 **08 Nov 2018**.
- 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. In the case of cancellation of camp, cheques will be returned.
- 4. Confirmation of camp will be made known by **20 Nov 2018** via email or phone.
- 5. Fees paid are non-refundable after 20 Nov 2018. 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.

Summarised timeline of Tinker Camp application







TINKER CAMP DECEMBER 2018 BOOKING FORM

FOR TINKER CAMP PARTICIPANT									
NAME OF PARTICIPANT:									
AGE:	GENDER:	SCHOOL:							
	M/F								
DIET CONSIDER	ATION & FOOD	T-SHIRT SIZE:							
ALLERGIES:		XS/S/M/L/XL							
·	ETARIAN / HALAL /								
OTHERS:		Size	Width	<u> </u>	Length	0			
		XS (3/4)			42 cm				
ALLERGIES AND	OR REQUIRE	S (5/6) 36cm M (7/8) 40 cm		46 cm 52 cm					
MEDICATION:		L (9/11) 42cm		55 cm					
		XL (12/14)			59 cm		9		
	Tolerance	1.27 cm		1.27 cm					
MEDICAL DECI	ARATION		1		T I	1634	alara at a datatla fatata		
				NO	YES	medi	, please give details (state cal condition, consulting doctor, nt medical condition, etc)		
1. Has your child / ward ever been told he/ she had									
symptoms of or suffered from or received treatment									
any health i	st discomfort,	hoart							
murmu	st disconnort,	Heart							
(b) Asthma	laints?								
(c) Fits or	ties not ment	ioned							
above?									
(d) Any ot	her illnesses, operation o	r treatment i	n the						
past 5 years not mentioned above?				Ш					
	nild / ward had or been a	idvised to hav	e any						
_	ests such as: ay, ECG, ultrasound, biops	v or blood scr	een?						
* *	y other tests not mentione	-							
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FOR PARENT/LEGAL GUARDIAN NAME:						LION .	TO CHILD:		
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HOME NO.: MOBILE NO.:					EMAI	L:			
ADDRESS:					POSTAL CODE:				





Booking and Payment Procedures

- 1. Completed booking form should reach us by **08 Nov 2018**.
- Please email Booking Form to <u>Fatin IESA@science.edu.sg</u> and return the original copy with a crossed cheque made payable to **Science Centre Board** for the sum of SGD 428 (7% GST included) to:

c/o Fatin Iesa 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 **08 Nov 2018**.

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Cancellation

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

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.

arent / Guardian Consent
(parent / guardian), NRIC/FIN no
cknowledge the information regarding the above mentioned activity and hereby ${f *}$ give consent / do not
ve consent to his/ her participation for the Tinker Camp held on 07 – 08 December 2018. I confirm that I am
ot aware of any medical conditions (other than those mentioned above) which may prevent my child/ ward
om participating fully in all the activities.
Signature Date