



## **TINKER CAMP (DECEMBER 2017)**

### **ABOUT TINKER CAMP:**

Science Centre Singapore's 2D1N *TINKER CAMP* at the Tinkering Studio returns for the third time! We are back with more design thinking workshops like 3D printing and prototyping our own arcade games. 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 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:**

08 -09 December 2017 (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 Mr Shah at [Shahrudin\\_KASMURI@science.edu.sg](mailto:Shahrudin_KASMURI@science.edu.sg) or contact him at 6425 2524.

## ITINERARY (1)

### Day 1

TIME	DESCRIPTION
9.00 am	Welcome to Science Centre Singapore
9.30 am	<b>Catapult Captain's Ball</b> Create your own launcher to challenge the opposing team in this ice-breaker game of Captain's Ball.
10.30 am	<b>Creative Coding</b> Writing coding scripts to make a motion sensor, game controller or musical instrument has never been more fun and easy.
12:30pm	<b>Lunch</b>
1:30pm	<b>DIY Marble Run</b> A fantastic engineering challenge. Use recycle materials like cardboards, craft sticks and tools like hot glue to create runways and mazes. Endless possibilities of marble adventure!
3.30pm	<b>3D Printing</b> Realise your 2D imaginations into 3D forms! Infuse creativity with the help of software to create and personalise your own inventions.
5.00pm	<b>Dinner</b>
6.00pm	<b>Electroluminescent Art</b> Understand the importance of polarity as you cut, strip and solder electroluminescent wires. Design and decorate luminescent outfit with EL wire strips and be amazed as it light up when you speak.
7.30pm	<b>Shower and Supper</b>
8.30pm	<b>Movie time</b> Be inspired by a journey of friendship, creativity and overcoming challenges.
10.30pm	<b>Catching Zzzzs</b>

### Day 2

TIME	DESCRIPTION
7.30am	<b>Tinkering exercise: Paper Rocket</b> Learn about the simple, yet important flight principles that can enhance the performance of your rocket. Perform rocket stability test and get thrilled as your paper rocket launches into the sky.
8.30am	<b>Wash-up and Breakfast</b>
9.30am	<b>Arcademia (Part 1)</b> Campers will be challenged to create their own arcade games. Equipped with programming skills, 3D technology and hands-on skills, campers will create their ideal game station.
11.30am	<b>Lunch</b>
12.30pm	<b>Arcademia (Part 2)</b> Step into the world of arcade games developed by our junior chef tinkerers. Their prototypes showcase their application of STEAM concepts that has been accumulated throughout the Tinker Camp.
	<b>Parents Seminar *</b> Cultivate a culture of tinkering with your kids at home.
1.30pm	<b>Arcademia Carnival</b>
2.00pm	<b>Goodbye Junior Chef Tinkerers</b>

*Note: Programmes are subjected to change due to unforeseen circumstances*

## ITINERARY (2)

*\*Parents are invited to join the campers for lunch on Day 2 followed by a Seminar in how the tinkering activities can be extended at home. After the seminar, parents are invited join in a fun afternoon of arcade games created by the campers. Parents are to arrive at 11.30am. 2 complimentary tickets per participant. Any additional family members, standard charges to the Centre applies.*

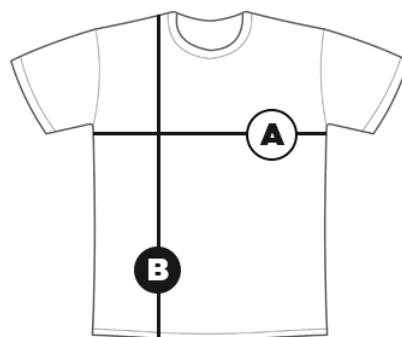
### Terms and Conditions

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 2017**.
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 **20 Nov 2017** via email or phone.
5. Fees paid are non-refundable after **20 Nov 2017**. 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 <b>(A)</b>	Length <b>(B)</b>
<b>XS (3/4)</b>	32 cm	42 cm
<b>S (5/6)</b>	36cm	46 cm
<b>M (7/8)</b>	40 cm	52 cm
<b>L (9/11)</b>	42cm	55 cm
<b>XL (12/14)</b>	45 cm	59 cm

**Tolerance                      1.27 cm                      1.27 cm**





## TINKER CAMP DECEMBER 2017 BOOKING FORM

FOR TINKER CAMP PARTICIPANT			
<b>NAME OF PARTICIPANT:</b>			
<b>AGE:</b>	<b>GENDER:</b> M / F	<b>SCHOOL:</b>	
<b>T-SHIRT SIZE:</b> XS / S / M / L / XL		<b>DIET CONSIDERATION &amp; FOOD ALLERGIES:</b> NORMAL / VEGETARIAN / HALAL / OTHERS:	
<b>ALLERGIES AND/OR REQUIRE MEDICATION:</b>			
MEDICAL DECLARATION			
	NO	YES	If Yes, please give details (state medical condition, consulting doctor, current medical condition, etc)
1. Has your child / ward ever been told he/ she had symptoms of or suffered from or received treatment for any health problems such as			
(a) Stroke, high blood pressure, chest discomfort, heart murmur or any related disorder?	<input type="checkbox"/>	<input type="checkbox"/>	
(b) Asthma, chest or breathing complaints?	<input type="checkbox"/>	<input type="checkbox"/>	
(c) Fits or other disorders or disabilities not mentioned above?	<input type="checkbox"/>	<input type="checkbox"/>	
(d) Any other illnesses, operation or treatment in the past 5 years not mentioned above?	<input type="checkbox"/>	<input type="checkbox"/>	
2. Has your child / ward had or been advised to have any diagnostic tests such as:			
(a) X-ray, ECG, ultrasound, biopsy or blood screen?	<input type="checkbox"/>	<input type="checkbox"/>	
(e) Any other tests not mentioned above?	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
FOR PARENT/LEGAL GUARDIAN			
<b>NAME:</b>		<b>RELATION TO CHILD:</b>	
<b>HOME NO.:</b>	<b>MOBILE NO.:</b>	<b>EMAIL:</b>	
<b>ADDRESS:</b>		<b>POSTAL CODE:</b>	
<b>Booking and Payment Procedures</b>			
1. Completed booking form should reach us by <b>08 Nov 2017</b> .			
2. Please email Booking Form to <a href="mailto:Shahrudin_KASMURI@science.edu.sg">Shahrudin_KASMURI@science.edu.sg</a> and return the original copy with a crossed cheque made payable to <b>Science Centre Board</b> for the sum of SGD 428 (7% GST 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 <b>08 Nov 2017</b> .			

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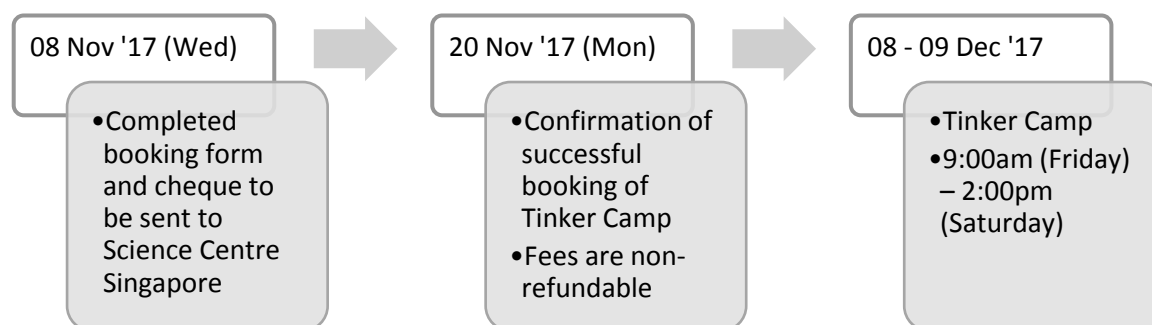
### Cancellation

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 **not** 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 aid and/or medical treatment as it shall deem reasonable and at their expense. Any such immediate first aid and/or medical treatment rendered shall **not** 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



### Parent / Guardian Consent

I, \_\_\_\_\_ (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 08 – 09 December 2017. 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.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date