HKUGA College x HKUGA Primary School
2020-2021 Activities and Events
Summer ELA (19th July – 20th August, 2021)

(A) **Sports ELAs**

Code	Activity	Venue	Time & Date	Max. No. of students (per class)	Fee (per ELA)	Eligible Student 2021-2022
SE1	Athletics Team (Jumping Event)	HKUGAC Amphitheatre	Wednesday & Friday 10:00-12:00 July 21, 23, 28, 30 Aug 4, 6, 11, 13, 18, 20	15	$200 (10 Lessons)	S1-S5
SE2	Athletics Team (Throwing Event)	HKUGAC Amphitheatre	Wednesday & Friday 10:00-12:00 July 21, 23, 28, 30 Aug 4, 6, 11, 13, 18, 20	15	$200 (10 Lessons)	S1-S5
SE3	Athletics Team (Track-Middle Distance)	Tseung Kwan O Sports Ground	Tuesday & Thursday 16:00-18:00 July 20, 22, 27, 29 Aug 3, 5, 10, 12, 17, 19	15	$200 (10 Lessons)	S1-S5
SE4	Athletics Team (Track-Sprinting) (PS,S1)	Wong Chuk Hang Sports Ground/ Tseung Kwan O Sports Ground/ HKUGAC Amphitheatre/ Kowloon Bay Sports Ground	Class A: Monday (Wong Chuk Hang Sports Ground) 08:30-10:00 July 19, 26 Aug 2, 9, 16 Class B: Wednesday (Tseung Kwan O Sports Ground) 08:30-10:00 July 21, 28 Aug 4, 11, 18 Class C: Friday (HKUGAC Amphitheatre) 08:30-10:00 July 23, 30 Aug 6, 13, 20 Class D: Saturday (Kowloon Bay Sports Ground) 16:00-17:30 July 24, 31 Aug 7, 14, 21 Note: Please enroll in 2 classes provided above.	15	$200 (10 Lessons)	P6 - S1
SE6	Badminton Team	HKUGAC School Hall	Monday , Wednesday & Friday 09:00-11:00 (S2-S5) 11:00-13:00 (PS,S1) 13:00-15:00 (PS-S5) July 19, 21, 23, 26, 28, 30 Aug 2, 4, 6	20	$180 (9 Lessons)	P6 – S5
SE7	Basketball Boys Team (Grade AB)	HKUGAC Basketball Court 1, G/F	09:00-11:00 July 19, 22, 26, 29 Aug 2, 4, 9, 12, 16, 18	20	$200 (10 Lessons)	S3-S5

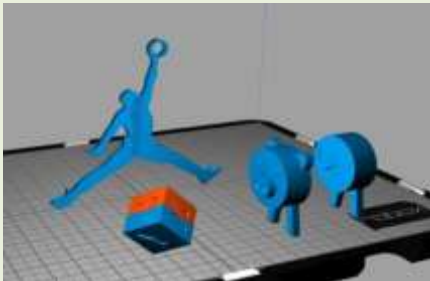| SE8	Basketball Boys Team (Grade C)	HKUGAC Basketball Court 1 & 2, G/F & 6/F	Wednesday & Friday 09:00-11:00 July 21, 23, 28, 30 Aug 4, 6, 11, 13, 18, 20	25	$200 (10 Lessons)	P6 – S2
SE9	Basketball Girls Team	Southorn Playground, Wan Chai	Tuesday & Friday 09:00-12:00 July 20, 23, 27, 30 Aug 3, 6, 10, 13, 17, 20	30	$200 (10 Lessons)	S1-S5
SE10	Football Team	Happy Valley Recreation Ground	Monday , Wednesday & Friday 09:00-11:00 July 19, 21, 23, 26, 28, 30 Aug 2, 4, 6, 9, 11, 13	40	$240 (12 Lessons)	P6 – S5
SE11	Handball	WCH Recreational Ground/ HKUGAC Basketball Court 2, 6/F	Monday & Friday 11:00-13:00 July 19, 23, 26, 30 Aug 2, 6, 9, 13, 16, 20	20	$200 (10 Lessons)	P6 – S5
SE12	Table Tennis Interest Group	HKUGAC Activity Center	Friday 10:00-12:00 July 23, 30 Aug 6, 13, 20	15	$100 (5 Lessons)	P6 – S4
SE13	Table Tennis Team	HKUGAC Activity Center	Tuesday 10:00-12:00 July 20, 27 Aug 3, 10, 17	15	$100 (5 Lessons)	S1 – S5
SE14	Volleyball Team	HKUGAC Basketball Court 2, 6/F	Tuesday & Thursday 09:00-11:00 11:00-13:00 July 20, 22, 27, 29 Aug 3, 5, 10, 12, 17, 19	18	$200 (10 Lessons)	P6 – S4

(B) **Music ELAs**

Code	Activity	Venue	Time & Date	Max. No. of Students (per class)	Fee (per ELA)	Eligible Student (2021-2022)
Mu1	Cello^	HKUGAC Rm 103A	Wednesday 11:00-12:00 July 21, 28 Aug 4, 11, 18	4	$200 (5 Lessons)	Coming P6 – S5
Mu2	Choir	HKUGAC Music Room	Wednesday 10:30-12:00 July 21, 28 Aug 4, 11, 18	20	$200 (5 Lessons)	Coming P6 – S5
Mu3	Clarinet^	HKUGAC Rm 103A	Saturday 11:00-12:00 July 24, 31 Aug 7, 14, 21	4	$200 (5 Lessons)	Coming P6 – S5
Mu6	Euphonium^	HKUGAC Music Room	Friday 10:00-11:00 July 23, 30 Aug 6, 13, 20	3	$200 (5 Lessons)	Coming P6 – S5
Mu7	Horn	HKUGAC Music Room	Tuesday 15:30-16:30 July 20, 27 Aug 3, 10, 17	3	$200 (5 Lessons)	Teacher selected
Mu8	Oboe	HKUGAC Practice Room	Tuesday 11:00-12:00 July 20, 27 Aug 3, 10, 17	3	$200 (5 Lessons)	Teacher selected
Mu9	Saxophone^	HKUGAC Music Room	Saturday 11:00-12:00 July 24, 31 Aug 7, 14, 21	4	$200 (5 Lessons)	Coming P6 – S5
Mu10	String Ensemble**/ String Quartet**	HKUGAC Rm 103B	Wednesday 10:30-12:00 July 21, 28 Aug 4, 11, 18	15 / 4	$200 (5 Lessons)	Coming P6 – S5
Mu11	Trumpet	HKUGAC Music Room	Tuesday 11:00-12:00 July 20, 27 Aug 3, 10, 17	3	$200 (5 Lessons)	Teacher selected
Mu12	Viola^	HKUGAC Music Room	Wednesday 09:30-10:30 July 21, 28 Aug 4, 11, 18	2	$200 (5 Lessons)	Coming P6 – S5

**Participants are expected to bring their own instruments.

^ Instruments will be provided during lessons.

(C) Technology ELAs

Code	Activity	Venue	Time & Date	Max. No. of Students (per class)	Fee (per ELA)	Eligible Students (2021-2022)
ACA1	**STEAMaker** 101 (3D Printing Induction) ● Operation of CEL-Robox 3D Printers and Slicer Software ● Printing of simple models ● Use of TinkerCAD to customise key-fobs for printing 	HKUGAC STEM Rm (Rm 411)	Monday 10:00-12:00 Jul 19	10-15	$250 (1 Lesson)	Coming P6 – S5
ACA2	**STEAMaker** 101 (Cricut Induction) ● Setting up CDS account ● Draw and Cut ● Uploading and inserting images ● Using Shapes (make a test cut) ● Print and Cut ● Score and Cut ● Making HTV (Heat Transfer Vinyl) 	HKUGAC STEM Rm (Rm 411)	Tuesday 10:00-12:00 Jul 20	10-15	$250 (1 Lesson)	Coming P6 – S5

ACA3	**STEAMaker** 101 (Inkscape Induction) ● Set up page, View ● Simple geometric shapes ● Duplicate and alignment ● Different colours, Union ● Fiducial Marks ● Use of transfer paper ● By example of Mickey Mouse 	HKUGAC STEM Rm (Rm 411)	Wednesday 10:00-12:00 Jul 21	10-15	$250 (1 Lesson)	Coming P6 – S5
ACA6	**STEAMaker** 101 (Music Box) (Recommended: Cricut and Inkscape Induction or prior Cricut/Inkscape Experience) ● Modify a Christmas Treat Box for housing electronics ● Use of an AC buzzer for music sound generation ● Program a song in Arduino 	HKUGAC STEM Rm (Rm 411)	Monday & Tuesday 10:00-12:00 Jul 26, 27	8-10	$600 (2 Lessons)	Coming P6 – S5

| ACA7 | **STEAMaker** 101 (Infinity Mirror)
(Recommended: Cricut and Inkscape Induction or prior Cricut/Inkscape Experience)
● Principles of multiple reflections and colour mixing
● Construction of a paper frame
● Construction of a semi-reflective/transparent front panel
● Use of Relay, Ultra-sonic Distance Sensor and Arduino
● Programming – synchronized playing of music and light
 | HKUGAC STEM Rm
(Rm 411) | Monday, Tuesday &
Wednesday
14:00-16:00
Jul 26, 27, 28 | 8-10 | $900
(3 Lessons) | Coming
P6 – S5 |

ACA8	**STEAMaker** 201 (Laser Cut Induction) 此課程會 介紹如何操作學校內的 Laser cut 雷射切割機，完成參加 者如有興趣，可參加 Laser cut workshop。 	HKUGAC STEM Rm (Rm 411)	Thursday 14:00-16:00 Jul 29	10-15	$250 (1 Lesson)	Coming S1 – S5
ACA9	**STEAMaker** 201 (Laser Cut Workshop) Laser cut workshop 會和同學一起利用雷射切割機進行創作 會教授如何用電腦軟件畫雷射切割圖 並製造自己設計的 ● 飾物 ● 鎖匙扣 	HKUGAC STEM Rm (Rm 411)	Friday & Monday 14:00-16:00 Jul 30, Aug 2	10	$700 (2 Lessons)	Coming S1 – S5
ACA10	**STEAMaker** 201 (Fotomo Workshop) (3D 立體相片) 此 Workshop 會利用 Cricut 切紙機，創作出獨一無二的立體相片 ，無需用傳統做法人手切割複雜形狀。 工作坊會教授電腦相片編輯軟件和 Cricut 切割軟件，最後會提供材料，參加者可 DIY 自己的 FOTOMO，以特別形式，留住最寶貴一刻。 	HKUGAC STEM Rm (Rm 411)	Wednesday & Thursday 14:00-16:00 Aug 4, 5	10	$800 (2 Lessons)	Coming S1 – S5

ACA11	**STEAMaker** 201 (Sticker Workshop) 此工作坊會和同學一起以 Autodesk sketchbook & Photoshop 軟件 配搭 Cricut 切割機去製作各種貼紙。 過程可學到： 貼紙種類, 以繪圖製作貼紙, 以相片製作貼紙, 相關軟件操作 	HKUGAC STEM Rm (Rm 411)	Monday & Tuesday 14:00-16:00 Aug 9, 10	10 - 15	$600 (2 Lessons)	Coming S1 – S5
ACA12	**STEAMaker** 201 (Heat Transfer Workshop) 此工作坊會和同學一起 以 Cricut 切割機和熱壓機去製作 自 己設計的熱轉印 t-shirt / 手提袋。 *工作坊會提供材料，但同學亦可自帶 t-shirt / 布類產品製作熱轉印。 	HKUGAC STEM Rm (Rm 411)	Wednesday & Thursday 14:00-16:00 Aug 11, 12	10	$700 (2 Lessons)	Coming S1 – S5

| ACA13 | **Robotic Arm Application Development using TinkerCAD**
1. TinkerCAD 的界面使用
   1. 簡單電子電路製作
   2. 模擬器的功能，電表，電流，正負極與電壓概念
   3. 電阻，LED，舵機，開關等使用
2. 簡單製作
   1. 閃動 LED
   2. 利用 TinkerCAD 編程
   3. 使用模擬器模擬輸出
   4. 一連串來回閃動 LED
3. 進階製作 - TinkerCAD and Arduino
   1. 編程須知 n(Analog Read 讀取電位器, Map 的功能與原理, Servo 如何驅動)
   2. 簡單舵機製作
   3. 利用電位器驅動舵機
4. 多舵機驅動
   1. 學生自行接綫利用模擬器製作多個舵機驅動綫路
   2. 利用編程實現模擬器驅動
   3. 檢討與進階準備
   4. 如何下從模擬器過渡到實際 Arduino（一人一臺機械臂上課）下載程式到 Arduino
   5. Arduino 程式上載
   6. 實際操作
5. 進階示範 (一人一臺機械臂上課，可以自行測試實際操作）
   1. 編程與記錄動作
   2. 機械人重復動作，模擬工廠的工序
   3. 討論與檢討
參考視頻 ： https://youtu.be/eo4pAdKlPEk | HKUGAC STEM Rm
(Rm 411) | Monday - Thursday
10:00-12:00
Aug 2, 3, 4, 5, 9, 10, 11, 12 | 8-10 | $3400
(8 Lessons) | Coming
S1 – S5 |