Plan on the Use of One-off STEM Grant (HK\$ 200K) - to be clawed back by the end of August 2019 with additional 30K from AC Committee (budget item named 'expenditure for STEAM education', in 2017-2018)

School: Shun Lee Catholic Secondary School

Year : 2017/18 and 2018/2019

Prepared by Lui CS

Task Area	Major Area(s) of	Implementation Plan	Benefits	Implementatio	Resource Required	Performance	Assessment	Person-in
	Concern		Anticipated	n Schedule	(HK\$)	Indicators	Mechanism	-charge
Science	Supply of STEM	Update and replace	Raise student	Sept 2017-	Total 30K, about	Centre opens in at	Service record	Mui LY
Learning	facilities and	STEM materials	interests in	July2018	HK\$ 15K per year	least 80% normal	log book.	
centre	resources, for	constantly. Open	STEM.			school days.		
(STEM	maintaining the	STEM center in most	t					
center)	operation of the	school days.				Students visit the	Student	
	center.					center comment that	questionnaire	
						the center can raise		
						their interests.		
S2 STEM	Regular and	Task-based	Raise student	Sept 2017-	Total 10K, about	Student complete	More than 75%	Но КР
class	extra double	mini-project, aimed	interest in STEM,	July2018	HK\$ 5K per year.	assigned tasks in	of students	
	lesson for S2	at developing skills	especially science			projects with	work are graded	
	class, delivered	and mindset for	disciplines.	Two periods	Mostly	satisfactory	satisfactory by	
	by Science	scientific	Prepare skills and	per cycle, with	consumable,	performance.	the teachers.	
	teachers	investigation.	basic knowledge	short (1-2	including teaching			
			for scientific	lessons) and	and learning	Students find the	Student	
			investigation.	long (3-4	materials for S2	course materials and	Questionnaire	
				lessons)	STEM class.	design relevant to their		
				projects.		learning.		

3D Printers	Provide 3D	Buy 3 to 6 sets of 3D	Exposure to 3D	Sept 2017-	Total 30K, in which	3D design and printing	Lesson	Poon KT
for TL(DT)	printing	printers, mostly	printing	July2018	about 20K for	are taught. Students	materials and	
Class	facilities to DT	low-end ASAP	technology		2017/2018 and 10K	are able to produce	student work	
	class				for 2018/2019	3D-printed products	are	
		3D design and				(e.g. necklace	filed/recorded.	
		printing will be				element).		
		included in S1 and						
		S2 TL(DT) classes						
Robotics Kits	Understand	Arduino robotics will	Hands-on	Sept 2017-	Total 60K, about	Arduino robotics are	Lesson	Poon KT
and electronic	Automation	be included in S1	experience and	July2018	40K for kick-off in	taught. Students are	materials and	
modules for	through control	and S2 TL(DT)	skills		2017/2018, and	able to build and	student work	
DT Class	technology	classes.			20K for 2018/2019	program Arduino cars	are	
	powered by		Exposure to			from scratch.	filed/recorded.	
	Arduino	Each student will	authentic control					
		build and program	technology					
		his/her own robot						
		Arduino car from						
		scratch!						
Student	Resources to	STEM-related	Widen horizon	Sept 2017-	Total 30K,	Each year, more than	Records of	Lui CS
Competition	support	competition will be	and increase	July2018	approximately 15K	one group of students	participation of	
	territory-wide	promoted through	exposure to latest		per year.	in each level (S2-S5)	competition.	
	student	STEM teachers in	STEM technology	,		participates in		
	competitions	their class as well as	for participating			territory-wide		
		on display board of	(talented) students			competition.		
		respective subject.						

Student	Participation in	Subject panels will	Widen horizons	Sept 2017-	Total 45K,	Each year, no less than	Records of	Lui CS
Learning	STEM related	submit plan by	and increase	July2018	approximately	2 STEM events are	events	
Experience	exhibitions and	September and	exposure to		22.5K per year	arranged, total with no		
	programmes	arrange STEM	STEM technology			less than 50		
		events such as	for participating			participants involved.		
		Mobile Lab /	students.					
		AstroLab / Workshop						
		/ Training/ Visit /						
		Talk for different						
		groups of students						
Consumable	Incentive to	Subject panels will	Teachers may	Sept 2017-	Total 25K about	At least half the	Record of	Lui CS
and	supply resources	submit request on	investigate the	July2018	12.5K per year	teachers make use of	purchase	
Miscellaneous	to teachers and	demand.	feasibility of new			the allocation for the		
and	talented		and latest			designated purpose.		
data logger	students, which		STEM-related					
	includes		teaching/learning					
	books/DVD/pub		materials with					
	lications/DIY		more incentive					
	kits/Tools and							
	Hardware(includ		Talented students					
	ing data logger)		may also involve					
			in advanced					
			STEM projects					
			and investigation					

TOTAL: HK\$230,000

Funding: One-off STEM Grant (HK\$ 200K) + Additional 30K from AC Committee (STEAM Education 2017-2018)