

CCC Heep Woh College
Report on the Use of STEM Grant

(To be updated on the school's homepage after IMC Meeting)

Objective

To provide opportunities for students to learn more about STEM in school curriculum

Subject	Item	Purpose/ Expected Results	Evaluation Criteria (Indicator)	Budget	Progress and Actual Expenditure
Science, Mathematics, ICT	Mbot, Thermometer and humidity sensor, Light sensor and RJ 25 adapter	Organize a STEM Day for S.2 students to enhance students learn more about the application of STEM knowledge	60% of teachers and students agree that they are satisfied with the arrangement of STEM day	\$45360	On 27 th April, a STEM Day was successfully co-organized by the Mathematics and Computer Departments and Science KLA. Students needed to solve Mathematics problems of sum of interior angles, Pythagoras theorem and trigonometric ratio at the task games. Expenditure: \$19238.9
Creative Media	GoPro Hero5 (拍攝用數碼機), GoPro Karma (航拍機), 購買配件 Insta 360 ONE, 手持拍攝穩定器 Ipad 接卡頭,	Provide opportunities for students to learn aero-photography by drone	60% of students agree that they are satisfied with the functionality of the system. The system is successfully installed and functioning.	\$22,080	System installed Expenditure including facilities and consumable: \$18204.29
Science	Food Waste Treatment : Composting Machine (廚餘機)	Installing Composting Machine to convert food waste into fertilizer as a conversion of energy and provide opportunities for students to learn the process of decomposition	The machine is successfully installed and functioning. 60% of teachers agree that they are satisfied with the functionality of the system.	\$47,200	Machine installed and functioned properly. Expenditure including purchasing machine, maintenance and consumables: \$49500
Science	Aquaponic (魚菜共生) + farming	<ul style="list-style-type: none"> • Provide students a place to cultivate edible plants • Provide opportunities for students to learn the conditions for plant growth. • Learning the concept of Aquaponic 	Teachers agree that they are satisfied with the system installation.	\$10,000	System installed Expenditure including facilities and consumable: \$7795.3

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Physics	Airlink wireless sensors: Force (x10) Motion (x20) Temperature (x12)	<ul style="list-style-type: none"> • Provide facilities for students to do experiments and competitions 	Teachers agree that they are satisfied with the functionality of the facilities	\$ 32,400	Facilities installed Expenditure including facilities and consumable: \$31825
Chemistry	iPad, keyboard & writing pen	<ul style="list-style-type: none"> • For teaching purpose • For demonstrating experiments 	Teachers agree that they are satisfied with the functionality of the facilities	\$ 8,864	Facilities installed Expenditure including facilities and consumable: \$8,864
Biology	DNA electrophoresis, Visualizer and HDTV	<ul style="list-style-type: none"> • For learning DNA fingerprinting • For demonstrating experiments 	Teachers agree that they are satisfied with the functionality of the facilities	\$ 17,000	Facilities installed Expenditure including facilities and consumable: \$16100
ICT	mBot Training, WRO competition subsidy	<ul style="list-style-type: none"> • For training teachers about the functionalities of mBot • For subsidizing WRO competition 	Teachers agree that they can master the mBot Students have participated in the WRO competition	\$21,500	Teachers have learned to master the mBot. Expenditure including training fee and subsidy for students to join the WRO competition: \$21500
Total				\$204,424	Total Expenditure: \$173027.7 (A)
Income: EDB STEM Grant				\$200,000 (B)	2017-18 Surplus \$26972.31 (B) – (A) Brought forward to 2018-2019

Signature of Supervisor :

Name of Supervisor :

Date :

Prof. Shum Kwok Yan Daisy

14th November, 2018