

Po Leung Kuk Lo Kit Sing (1983) College

Plan on Use of One-off Grant for the Promotion of STEM Education (2018/2019)

Item(1)

Task Area	Major Area(s) of Concern	Strategies/Tasks	Benefits Anticipated	Time Scale	Resources Required	Success Criteria	Method(s) of Evaluation	People Responsible
Information Technology and Engineering	Making models from different kinds of materials; Enriching the programming curriculum	Implement vector graphics design software for laser cut machine; Set up programming curriculum with micro:bit package	Enhance new tools and technology in STEM development	Whole academic year (2018/2019)	A lump sum amount of \$10,000	Successfully producing models and using micro:bit packages in lessons	Meetings and reports from teachers	LKT (I.T.)

Item(2)

Task Area	Major Area(s) of Concern	Strategies/Tasks	Benefits Anticipated	Time Scale	Resources Required	Success Criteria	Method(s) of Evaluation	People Responsible
Science and Technology	Applying micro:bit In STEM activities	Small projects in science station/ ECA activities / competitions	Developing problem solving skills through science and technology	Whole academic year (2018/2019)	\$20,000 (For micro:bit and accessories; For competitions)	80% students of the involved form participate in the science station activities	Meetings and reports from teachers	CCA (Technology)

Item(3)

Task Area	Major Area(s) of Concern	Strategies/Tasks	Benefits Anticipated	Time Scale	Resources Required	Success Criteria	Method(s) of Evaluation	People Responsible
Science and Technology	Setting up an aquaponics/ hydroponic system	A project involving scientific application, allowing some scientific investigations	Develop scientific investigative skills for a team of students	Whole academic year (2018/19)	45,000	Complete a scientific survey on a study of the project	Meetings, reports and evaluation from students	LYK (Science)

Item(4)

Task Area	Major Area(s) of Concern	Strategies/Tasks	Benefits Anticipated	Time Scale	Resources Required	Success Criteria	Method(s) of Evaluation	People Responsible
Mathematics and Engineering	Making 4D Frame models	Workshop / competitions	Enhance students' understanding in three dimensional spaces and their creativity in problem solving	Whole academic year (2018/2019)	\$25,000 (For workshop and material)	Producing models of good quality (>10 sets)	Meetings and reports from teachers; Students' models	CCP (Mathematics)

Total amount for the proposal: \$100,000.00

	Item(1)	Item(2)	Item(3)	Item(4)	Total
Amount	10,000.00	20,000.00	45,000	25,000.00	100,000.00

**Balance B/F 2017/2018: HK\$98,887.00**

**Total estimated grant to be received from EDB for 2018/19: HK\$0.00**

**Total estimated expenditure 2018/2019: HK\$100,000.00**

**Estimated deficit: HK\$1,113.00**

**(Estimated deficit will be absorbed from the surplus of EOEBG)**