Sir Ellis Kadoorie Secondary School (West Kowloon)

STEM Education (2020/2021)

Programme Plan

School Major Concerns:

Theme: Multiple Pathways to Glory

- 1. Excelling Effective Learning and Teaching
- 2. Excelling Students' Core Values and Potential
- 3. Excelling Teachers' Professional Development

I. Achievement Targets (AT)

- 1. To arouse the interest of students in learning science, technology, engineering and mathematics through hand-on projects.
- 2. To equip students with the ability to take holistic approach to solve problems by integrating different disciplines.
- 3. To allow students to acquire basic programming knowledge.
- 4. To strengthen students' ability to perfect and embellish the end products.
- 5. To strengthen students' ability on act and design.

II. Strategies / Tasks to achieve targets

AT	Strategies / Tasks	Time scale	Success Criteria	Method of Evaluation	People	Resource	Use of
1,2,3,4	To use micro-computers or electronic controllers as means for learning programming in lesson time a. Lego Robotic learning lesson service b. Fischertechnik c. Micro:bit X marker student course d. Drone training To do hands-on projects, product finishing or artwork. Design a Fai Chun decoration	2 lessons per week on each class	 At least 70% of the S.2 students found STEM lessons interesting. At least 2 STEM related competitions are joined for target students in one academic year. 	Questionnaires / Teachers' observation	STEM education teachers	a. 45,000 b. 40,000 (30 sets) c. 49,000 d. 25,000	LWL LWL Sister school program LWL
1, 3, 4	To join external competitions to broaden student's horizon a. Unerwater Robotic competition (HKUST) b. Robotic Intelligence DIY 2020					a. 1,000 b. 1,000 c. 1,000	LWL LWL LWL
1, 2, 3, 4, 5	To establish a STEM exhibition	first term (Open day)				7,000	LWL

Estimated Total: \$ 170,000

^{*} LWL= life wide learning grant