

**Annual Programme Plan for
DLG – Other Programme: Gifted Education for the 2019/20 school year**

Domain	Programme	Objective(s)	Targets (No./level/selection)	Duration/ Start Date	Deliverables	Teacher i/c	Budget
Physics	Hong Kong Students Science Projects Competition Invention Team	<ul style="list-style-type: none"> To provide potential students inventors / researchers ample opportunities to apply their skills and knowledge in actualizing their ideas A series of training with a focus on STEM skills and knowledge, product design and marketing will be provided to participants 	<ul style="list-style-type: none"> 6 students S4-S5 outstanding students in Physics 	~16 lessons in 8 months (32 hours)	<ul style="list-style-type: none"> Presentation and / or report generated by students Product invented by students Interview with students and teachers involved Competition result 	Commissioned to external trainers with Mr. SC Chan as coordinator	HKD 20,000 (course fee and material fee)
	Underwater Robot Competition held by HKUST	<ul style="list-style-type: none"> Students will participate in a comprehensive STEM competition organized by HKUST Students will work together as an engineering company to build their own robot with various advanced STEM knowledge and skills 	<ul style="list-style-type: none"> 6 students S1-S2 interested students 	~16 lessons in 8 months (32 hours)	<ul style="list-style-type: none"> Presentation and / or report generated by students Robot built by students Interview with students and teachers involved Participation in competition 	Commissioned to external trainers with Mr. SC Chan as coordinator	HKD 20,000 (course fee and material fee)
	Electronic Endeavour Match held by IEEE	<ul style="list-style-type: none"> To provide high achievers ample opportunities to learn advanced electronic and electrical knowledge and skills 	<ul style="list-style-type: none"> 6 students S1-S2 interested students 	~8 lessons in 2 months (12 hours)	<ul style="list-style-type: none"> Performance of students on the ability in building electronic circuit Participation in competition 	Commissioned to external trainers with Mr. SC Chan as coordinator	HKD 5,000 (course fee and material fee)
	International	<ul style="list-style-type: none"> To provide students who are 	<ul style="list-style-type: none"> 10 students 	~8 lessons in 4	<ul style="list-style-type: none"> Interview with 	Commissioned to	HKD

	Astronomy and Astrophysics Competition held by IAAC	<p>interested in Astronomy to unleash their potential in scientific investigation and apply to challenging problems related to astronomy and space science</p> <ul style="list-style-type: none"> ● Training course will be provided to participants 	<ul style="list-style-type: none"> ● S1 to S5 interested students 	months (12 hours)	students and teachers involved	external trainers with Mr. SC Chan as coordinator	10,000 (course fee and material fee)
	「STEM 到校課程」 培正專業書院	<ul style="list-style-type: none"> ● Will liaise with 培正專業書院 to develop a second year STEM program for existing junior Robotics Team members ● To equip students with advanced STEM skills so that they are ready to take up different roles in invention / research teams in our school 	<ul style="list-style-type: none"> ● 10 students ● S2 existing Junior Robotics Team members 	~20 lessons in 4 months (30 hours)	<ul style="list-style-type: none"> ● Interview with students and teachers involved 	Commissioned to external trainers with Mr. SC Chan as coordinator	HKD 35,000 (course fee and material fee)

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Chemistry	Chinese Medicine Research and Study	<ul style="list-style-type: none"> To equip students with knowledge related to Chinese Medicine by courses provided by tutors from tertiary education sector To equip students with advance scientific research skills related to Chinese Medicine Research using the advance analytical instruments in Chinese Medicine Research Centre To promote Chinese Medicine Culture as an important area of Medicinal Chemistry to students 	<ul style="list-style-type: none"> 6 students S3-S5 students Nominated by Chemistry Department 	~12 lessons in 4 months (36 hours)	<ul style="list-style-type: none"> Scientific report/ Innovation product at the end of the course Participation in <i>Hong Kong Students Science Projects Competition</i> 	Commissioned to external trainers with Mr. HW Tsai as coordinator	HKD 23,000 (course fee and material fee)
	Hong Kong Youth Science and Technology Innovation Competition and Research	<ul style="list-style-type: none"> To enhance students' scientific research skills by incorporating STEM research techniques To encourage students to apply their science knowledge in solving real life problems so as to accelerate students' learning in Science 	<ul style="list-style-type: none"> 12 students S3-S5 students Nominated by Chemistry Department 	~10 lessons in 4 months (30 hours)	<ul style="list-style-type: none"> Scientific report/ Innovation product at the end of the course Scientific report/ Innovation product at the end of the course 	Commissioned to external trainers with Mr HW Tsai as coordinator	HKD 18,000 (course fee and material fee)

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Biology	Hong Kong Youth Science and Technology Innovation and researching	<ul style="list-style-type: none"> To provide high achievers ample opportunities to learn advanced science content To equip students with advanced scientific researching skills and participate in Hong Kong Youth Science and Technology Innovation Competition held by Hong Kong New Generation Cultural Association. 	<ul style="list-style-type: none"> 5 students S3-5 students Nominated by Biology Department. 	~10 lessons in 7 months (40 hours)	<ul style="list-style-type: none"> Scientific Report / Innovation product at the end of the course Participation in “Hong Kong Youth Science and Technology Innovation Competition” 	Commissioned to external trainers with Mr. KL Chan as coordinator	\$25,000 (Course fee)
	Ecology in Hong Kong	<ul style="list-style-type: none"> To sharpen students’ scientific investigation skills through field studies. 	<ul style="list-style-type: none"> 6 students S3-5 students Nominated by Biology Department 	~10 lessons in 7 months (40 hours)	<ul style="list-style-type: none"> Research report at the end of the course. Participation in investigative field study competition “Searching For Nature Stories” 	Commissioned to external trainers with Mr. KL Chan as coordinator	\$25,000 (Course fee)