Evaluation for the Use of Diversity Learning Grant / Gifted Education Programs 2017/18

Gifted Education Committee 2017/2018

Objectives

1. To devise systematic and strategic planning to identify gifted and talented students who possess outstanding performance or potential in some aspects and to foster their holistic development as well as their commitment to serving the community

2. To provide challenging learning opportunities for gifted and talented students so as to fully develop and stretch their potential in a wide range of specialist areas, including leadership, creativity, personal-social competence.

3. To develop school-based training programs and to support students to participate in external competitions and gifted education programs

Note: The Renzulli's Three-Ring Conception of Giftedness and Howard Gardner's Theory of Multiple Intelligences are adopted for screening and selection of gifted and talented students through multiple channels and pathways.

Year Plan under Diversity Learning Grant (DLG)

The activities to be carried out in the academic year 2017/2018 are as follows:

1. mbot STEM robot course and competition
2. Strategic planning & interviewing skills in focused professions (For S6 students)
3. Preparative course for Scientific Competitions
4. Arduino Programming course for applications
5. Preparative Course for Inter-school Chinese Medicine Competition
6. Junior Achievement Company Program
7. Creative English Writing Course
8. School Team Sports and Leadership Training Camp
9. Preparative course and materials for Budding Scientist Award
10. Subsidy for external gifted programs

Evaluation of Action Plan & Use of Diversity Learning Grant (2017-18)

Committee: Gifted Education Committee

Major Area(s) of Concern	Implementation Date	Expenditure	Performance Indicators	Results of Evaluation	Person in-charge
1. mbot STEM robot course and competition - To educate students about the knowledge in scratch language as basic and advanced level - To foster application of STEM for problem solving and development of communication skills and leadership	Sept 2017 to April 2018	Course fee: Basic course HK$10,000.00 & Advanced Course: HK$12,000.00 Materials for competition : HK $5387.60 Total: HK$27,387.60	1. Students' attendance is about 70%. 2. 80% of the participants find the courses useful and interesting. 3. The knowledge in STEM, creativity, high order thinking, communication skills and leadership of students have been enhanced.	1. The student were always on task and they complete tasks assigned within lesson time 2. Positive feedback were received from participants. 3. Comments from tutors were positive as most students were able to learn fast and completed tasks assigned with good performance.	Gifted Education Committee (WAN, TSN)
2. Strategic planning & Interviewing skills in focused professions (For S6 students) - To train up students' strategic planning skills & self-management skills.	Nov 2017 to Dec 2017	Training course: (7.5 hours) HK$7,500	1. 80% of the participants find the course useful. 2. 80% of the participants understand better about career choices. 3. Students have carried out focused study at one JUPAS choice. 4. Students have prepared for self-introduction.	1. The student survey reflected that 100% of the participants found the course useful and they agreed that the course helped them understand better about their strengths and weaknesses, career choices and the strategy of assigning JUPAS choices, and had equipped them with practical interviewing skills through Mock Interview and Self-Introduction. 2. The students performed well in the Mock interview. They prepared suitably for the	Gifted Education Committee (MHM, KCH)

- To promote their awareness on JUPAS choices of selection. - To train up students' interviewing skills in focused professions				interview and the interviewing skills like keeping good eye contact, speaking smoothly and confidently, showing courtesy and attention to other candidates were suitably exhibited. 3. The overall attendance rate was 65%.	
3. Preparative program for Scientific Competitions - To prepare biology students to cope with the questions of the Hong Kong Biology Literacy Award. - To train up students' analytical skills and problem solving skills	October 2017 to November 2018	Preparative course (9 hrs) : HK$4,050	1. Students' attendance is about 80%. 2. One student had obtained the 1st Class Honor Award. 3. Scientific knowledge, and problem solving skills of students have been enhanced.	1. Nine S5 students joined the preparative course and they were taught with topics not covered at school. They are also trained with answering analytical skills and problem solving skills required in the Hong Kong Biology Literacy Award. Overall attendance rate is about 80%. 2. A total of nine S5 students were nominated to participate in the Hong Kong Biology Literacy Award for Secondary School this year. Preparative course was conducted by a tutor to equip them with all the essential biology knowledge for the award. They had to complete a 1-hour multiple choice questions which were related to the HKDSE syllabus of Biology. 5C Tsang Cheuk Hei won the First Class Honor. The competition was organized by HKASME in order to promote the learning morals in studying Biology.	Gifted Education Committee (MHM, WAN)
4. Arduino Programming course for applications - To train up S4 & S5 students in Arduino programming related to	--	Course fee & materials: HK$0	The course was unable to be held this year.	1. Recruitment of tutor for the programming course was not successful. 2. Not enough students were interested to participate the course.	Gifted Education Committee (TSN)

designs and applications - To learn coding language scratch as a start of learning Arduino l					
5. Preparative Course for Inter-school Chinese Medicine Competition	Nov to Dec 2017	Training course: HK$3,600.00	1. Students' attendance is at least 80%. 2. 80% of the participants find the courses useful. 3. The knowledge in Chinese Medicine & high order thinking skills of students have been enhanced.	1. Thirteen students from S.2 to S.4 participated in the course offered by Chinese Medicine Service of Pok Oi Hospital. 2. There was no inter-school Chinese Medicine Competition organized by the Department of Chinese Medicine of Baptist University. Therefore, there is no further training for the competition. 3. There were four tutors assigned for a short course which discouraged building up of good relations between tutors and students. Therefore, the course may not be continued if no suitable tutor could be recruited.	Gifted Education Committee (MHM, KPY)
6. Junior Achievement Company Program 2017 - To train up S4 & S5 students to participate in Junior Achievement Company program	Oct 2017 to Feb 2018	Training course and transportation: HK$0	1. The students successfully designed and implemented their own business. 2. The management, leadership, problem solving skills and confidence of students had been enhanced.	1. Students successfully set up their own business and sold their products in school and at the trade affair. 2. Students benefited from the program by experiencing the process of starting up a business and the management of a company. The leadership, problem solving skills were much enhanced.	Gifted Education Committee (MHM, KCH)
7. Creative English Writing Course - To train up students' creativity and	March 2018 to May 2018	Training course: HK$10,500.00	1. Students' attendance is at least 70% 2. Comments from tutor is promising	1. The person-in-charge of the University of Hong Kong has quitted from the job, so the creative writing course were unable to be continued this year with a short notice. 2. Another language-related course for PSK	Gifted Education Committee (KYF, MHM) & Department of

communication through creative writing				Putonghua were organized with collaboration of Department of Putonghua in replace of the Creative Writing Course. 3. Attendance rate of S3 participates were high.	Putonghua (THL & MHK)
8. School Team Sports Training Camp - Gifted Education for School Team Members – Generic skills, especially collaboration skills, communication skills, problem solving skills, creativity & high order thinking	8 July 2018 – 9 July 2018	Camp fee: HK$14,670	1. At least 80% students can finish the training successfully. 2. 3. 80% of the participants find the camp useful and meaningful. 4. The collaboration skills, communication skills and the problem solving skills have been enhanced. 5. Improvement of Teamwork had been observed	1. Thirty one S3 - S5 students joined the training camp 2. Students had leadership training and problem solving tasks assigned to complete. 3. Collaboration skills and communication skills have been enhanced through participating activities in the camp. 4. The attendance was over 80% and around 80% of the participants find the learning experiences useful and nearly half of the participants had intension to take up leading posts in the next academic year.	Gifted Education (MHM) & Student Council (CCH & LNT)
9. Preparative course and materials for Budding Scientist Award - To prepare students for Budding Scientist Award - To train up students' problem solving skills and critical thinking skills	February 2018 to April 2018	Course fee: $0 Materials: HK$ 0	1. Participation in preparation work is more than 90% 2. The school team was successfully entered the semi-final. 3. Scientific knowledge and problem solving skills of students have been enhanced	1. The preparative course was conducted by teachers of our school during the Easter holiday. Four students participated in the competition and their attendance is more than 90%. 2. The preparation work crashed with our school term test so the preparation time was tight this year. 3. Since two students had participated this competition last year, their performance was much improved this year.	Gifted Education Committee (MHM, WAN, KPY)

10. Subsidy for external gifted programs (including STEM – related programs) - To subsidize students enrolled in gifted education programs offered by local tertiary institutes or external organizations.	Sept 2017 to July 2018	Course Fee, materials and transportation: HK$15,680.00	1. The students have completed the subsidized courses. 2. Students are able to reflect on their learning and aware of the benefits from the courses. 3. Students share their learning experience with schoolmates.	1. <u>Innocarnival 2017</u> 55 students from S1C and S4C had visited the Innocarnival held in the Science Park on 23rd October. This year's theme is "Live Smart · Be Innovative". A guided tour was arranged for the students. It was an educational and interesting event and students participated enthusiastically in seminars, talks, guided tour, competitions and workshops. All students agreed that the activity broaden their understanding on STEM education in Hong Kong. 2. <u>HKUST Dual Program</u> One students completed Dual Program offered by HKUST. 5C Chan Hok Chun obtained A+ in Mathematics Level 2. 3. <u>Hong Kong Biology Literacy Award</u> Enrollment fee for the competition was subsidized to nine students who had completed the school-based course. One student obtained the First Class Honor Award. 4. <u>Hong Kong Academy for Gifted Education (HKAGE) nomination</u> Eight students from S1 to S5 were nominated to the annual recruitment exercise of the Hong Kong Academy for Gifted Education according to the following aspects: Mathematics, Science, Humanities and Leadership and successfully accepted by the organization.	Gifted Education Committee (all members)

				5. CUHK Popular Science Talk: "Where are the air pollutants in Hong Kong come from?", "The Beauty of Carbon" Over seventy S2 to S4 students participated the talk given by Professor Chan Man Lin, Assistant Professor of the Chinese University of Hong Kong. Students learnt about the source of air pollutants in Hong Kong, the method of monitoring the amount of air pollutants and the measures to alleviate the situation. 6. GreenMech Contest (Hong Kong Station) 2018 Four S3 students participated the GreenMech Contest in May. They successfully designed and assemble 5 – 20 checkpoint within 3 hours by using the building blocks in the competition. This was a STEAM competition organized by Hong Kong Federation of Youth Group and Centre for Creative Science and Technology. Our students had learnt a lot and they had confidence to do better next year. 7. Secondary School Mathematics and Science Competition organized by PolyU Eight students participated in this competition organized by the Faculty of Applied Science and Textiles from the Hong Kong Polytechnic University. They showed enthusiasm in both preparing and participating the competition. The results were summarized below:	

				Chemistry: 1 High Distinction, 3 Distinctions, 1 Credit and 1 Proficiency Award Biology: 2 Medals, 1 Distinction and 1 Proficiency Award 8. <u>Ultraviolet Radiation Measurement and Application Competition 2017-2018</u> Five S.5 students, 5A Fan Chun Ho, 5C Wong Nam Fung, 5D Kwok Ka Yan, Mok Chun Kau and Yung Wai Man, participated the Ultraviolet Radiation Measurement and Application Competition which aims to enrich students' knowledge and interest in both engineering and geophysics. The competition was held on 29th April. Our school team obtained a merit prize. 9. <u>John Hopkins University CTY Programme</u> Two students were nominated to attend the CTY Scholarship for Hong Kong. Ability Test (SCAT) as a selection test on 7th January 2018 at the University of Hong Kong. 2D Kung Yuen Ki has been invited by the organization to attend their summer course this year. 10. <u>Australia National Chemistry Quiz 2018</u> Thirty-three S.5 and S.6 students participated in the Australia National Chemistry Quiz 2018. Result will be released in September.	

				11. <u>Australia Big Science Competition (HK Section) 2018</u> Six students from S1 to S4 were nominated to participate the Big Science Competition held on 30 June 2018. Students were required to complete a 1-hour test and chances would be given to students with extraordinary results to compete with other students overseas. 12. <u>7th Model Solar Boat Challenge</u> Three S.5 students were selected to participate in the inter-school competition "7th Model Solar Boat Challenge" at Arts & Technology Education Centre (ATEC). The students had acquired engineering skills to perform various tests to optimize the speed of their model solar boats. They attended a workshop on model solar boat design and the competition was held on 5th July 2018. 13. <u>Program for the Gifted and Talented 2018 (by Faculty of Education CUHK)</u> 3A Chim Ho Yin have been successfully accepted by the institute to take the courses "Rethinking School Mathematics: What the Textbooks Don't Tell Us", "Exploring the Universe" and Understanding Chemistry from Principle to Experiment" 1B Siu Cho Shing was offered the course "Exploring the Universe". 14. <u>Sharing in Morning Assembly</u> Students participating in Leadership Training Program, High School Science Camp, Faraday Challenge Day and various	

				competitions were invited to share their experience in the Morning Assembly.	
11. Miscellaneous - To subsidize the transportation from school to airport for students joining the High School Science Camp	July 2018	Transportation: HK$0	1. Students are able to reflect on their learning and aware of the benefits from the courses. 2. Students share their learning experience with schoolmates.	<u>High School Science Camp 2018</u> Nine S4 students participated in the High School Science Camp organized by the Hong Kong Student Activity Committee. They had an opportunity to stay in the campus of Dalin University of Technology and visit the centers of science and technology development, Science Park and laboratories. Students were benefited by making new friends and widening their horizon on the science development trend in China.	Gifted Education Committee (KPY, MHM)

<u>Gifted Education Committee-Use of Diversity Learning Grant</u>
<u>Financial Report 2017-2018</u>

Summary:	
Item 1: 1. mbot STEM robot course and competition	$27,387.60
Item 2: Strategic planning & interviewing skills in focused professions (For S6 students)	$7,500
Item 3: 1. Preparative course for Scientific Competitions	$4,050
Item 4: Arduino Programming course for applications	$0
Item 5: Preparative Course for Inter-school Chinese Medicine Competition	$3,600.00
Item 6: Junior Achievement Company Program	0
Item 7: Creative English Writing Course / PSK Putonghua Training Course	$10,500.00
Item 8: School Team Sports and Leadership Training Camp	$14,670
Item 9: Preparative course and materials for Budding Scientist Award	$0
Item 10: Subsidy for external gifted programs	$15,680
Miscellaneous	$0
Reserve	$612.40
	Total:$84,000