

6. Technology Education

6.1 Computer Department

Mrs. C. P. Ho

In the Technology Key Learning Area, the Computer Department aims to provide students with a body of essential knowledge and concepts related to the application of information, communication and computer systems. We offer the following curricula at different levels to the students.

- Information Technology (IT), a school-based curriculum which is compulsory for all students in S.1 - S.3
- Information and Communication Technology (ICT), an HKDSE elective subject for S.4 - S.6 students

In the last academic year, our S.6 students attained very good results in the HKDSE ICT examination. 100% of them scored level 4. As a reference, only 27.3% of all candidates of Hong Kong attained level 4 or above.

Our junior secondary IT classes continued to adopt a split-class arrangement to facilitate the large number of practical activities that encompass our task-based approach. Students in each class were divided into two groups and had lessons simultaneously in two Computer Rooms. The school-based IT curriculum was continually revised to keep it up-to-date, to better cater for students' needs and to provide a stronger interface with the senior secondary ICT curriculum. The following new modules were incorporated into the S.3 IT curriculum.

- “Makeblock Neuron”, a programmable electronic modules platform, was used to introduce flow-based programming and the Internet of Things (IoT).
- “Technovation Challenge”, an international competition of tech entrepreneurship, was arranged for students to solve a problem in the community by creating a mobile app and implementing a business plan.

To implement the “One-Student-One-iPad” policy, school-based teaching materials were gradually migrated from eClass virtual classrooms to “Google Classrooms” for easy access using iPads. The iPad apps “Nearpod” and “EdPuzzle” were often used during class time to engage students in more interactive lessons. The iPad app “Quizlet” was used by students at home to prepare for lessons or to revise after lessons.

The following outside classroom activities were arranged to enrich the students' learning experience and broaden their exposure.

Date	Activity	Organized by
22-24 June 2018	International Symposium on STEM Education	University of Hong Kong
16-20 July 2018	NetDragon VR/AR Experiential Camp at Fuzhou, China	Hong Kong Association of Computer Education
16-31 August 2018	CityU EE AI Workshop	City University of Hong Kong

The Department offered three interest groups as part of Other Learning Experiences (OLE) in the last academic year:

- The Computer Club, which provides light-hearted and application-oriented activities during Extra-Curricular Activities (ECA) lessons on OLE days
- The DGS Programming Team, which offers intensive Pascal programming and AppInventor training courses to prepare our team members for external competitions
- The Media Production Team, which performs photo-taking or video-filming duties for the School during major school events

The following students participated in external competitions and achieved very good or excellent results.

Competition	Organized by	Award: Student(s)
Technovation Challenge (Global)	Iridescent	Semi-finalists (Junior): Team comprising Chan Hoi Tung, Chau Athena Anson, Lee Wing Lam Kaitlyn, Poon Yan Wing Olympia, Tang Hoi Ying Helen Semi-finalists (Senior): Team comprising Ip Ting Chi Tiffany, Lam Sze Yin Cecilia, Wong Charlotte Loc Heng, Looi Nga Laam, Tang Sin Kiu
Technovation Challenge (Pitch Finals for Hong Kong and Greater Bay Area)	Young Makers & Change Makers	Best Social Innovation: Team comprising Kwok Hiu Lam Selina, Lai Wing Shan, Melis Marsha, Law Hoi Kiu Katrina, Wong Ching Tung Second Runner-up: Team comprising Leung Ka Yan Miko, Chiu Wai Ling Anna, Choi Ching Lam, Kwan Tong Sum Olga
Hong Kong Olympiad in Informatics (HKOI) 2017/18	Education Bureau and Hong Kong Association of Computer Education	Bronze Medal (Senior): Chin Hei Yin Ramona Bronze Medal (Junior): Lau Tsz Ching Rachel
Canadian Computing Competition (CCC) 2018	Department of Computer Science, University of Hong Kong	Certificate of Merit (Junior): Ng Sze Mai, Chin Hei Yin Ramona Honorable Mention (Junior): Wong Chi Ka
樂齡科技顯愛心比賽	機電工程署	殿軍(優異獎): Team comprising Liu Tin Nam Katrina, Lam Sze Yin Cecilia, Wong Ching Tung Monique, Looi Nga Laam Vivian, Tang Sin Kiu Isa
「聆聽·一分鐘」短片比賽	聯合國兒童基金香港委員會	特別表揚獎: Fung Tiffany Wing Ying
Gender Equality Film Competition	Hong Kong Federation of Women	Champion: Team comprising Wong Charis Lorraine, Liu Tin Nam Katarina, Wong Wan Chun Ashley,

		Heung Ching Tung Sophie, Lam Sze Yin Cecilia, Wong Charlotte Loc Heng Third: Team comprising Chan Yi Kwan Annette, Ip Ting Chi Tiffany, Wong Jasmine Yi Ting, Ko Leong Suet Katie, Fung Tiffany Wing Ying, Leung Kwan Kiu
Chinese Music Clips 40s	Hong Kong Chinese Orchestra	Best Actresses: DGS Chinese Orchestra and Media Production Team

To conclude this report, sincere thanks must be extended to the Headmistress for her continuous support and to all the Computer teachers for their professionalism and dedication throughout the year.

6.2 Technology and Living

Mrs. P. Hui

The academic year started in August with a self-management course which was held from 29th to 31st August 2017 as part of the new Student Induction Programme. With the assistance of student helpers, the department conducted a programme for S1 students, introducing some basic skills in cooking and needlework.

In September the department spent time to prepare for the External School Review which took place from 9th to 19th October 2017. During the class observation, students from 3Z were engaged in a variety of self-directed learning activities which they participated actively.

In February 2018, sixteen students from 執信中學 joined our cooking classes and enjoyed making Turnip puddings and Water chestnut puddings. During the same period of time, the department conducted cooking classes for staff and old girls on making symbolic dishes for the Chinese New Year.

In June 2018 some students, staff, parents and old girls enjoyed the hands-on experience in making dumplings in the Home Management Centre as they supported the Glutinous Rice Dumplings Charity Sale ‘萬粽同心為公益 2018’. Their generosity enabled the School to achieve “最高籌款學校” once again. The amount raised was \$106,320.

Cooking classes for the elderly, part of the Elderly Academy 2018 were held on 28th June, 4th and 6th July. Special thanks to Sophia Li, Christy Leung, Vanessa Leung, Yolanda Lau and 2U Group A students who contributed to the success of this meaningful event. The experience was valuable and rewarding as the students and elderly worked closely together and shared the joy of cooking.

In terms of hospitality projects, the department had organized tea reception and other related services for several school functions, including:

- the Inter-house Swimming Meet on 20th and 25th September;
- Inter-house Athletics Meet on 8th and 17th November;
- Speech Day on 24th November;
- S1 interview on 2nd December;
- Staff Development Day on 12th December;
- Parents’ Day on 27th January;

- Careers Counsellors meeting for local and overseas counsellors on 9th April;
- Careers Fair on 21st April;
- SKH schools Principals meeting on 24th April; and
- the Watchdog end-of-term party on 6th July.

Four internal competitions and projects were held annually:

1. The Fabric Pattern Design Competition took place in early September 2017. A total of 1315 girls, parents and teachers voted for their favourite fabric pattern design. 3X Qian Shi Qi got the most number of votes. She was followed by 3U Chan Hoi Ching Tiffany. 3U Chan Sze Hang came third. The winning design was adopted and printed on fabric bags and stationery items which were sold during the Mini Bazaar.
2. The Cake Decoration Competition was held on 2nd March 2018. The competitors showed good understanding as they interpreted the theme “Friendship” from different perspectives. In addition, they applied a variety of cake decoration techniques. 3Z and 4Z were the champion teams, while 2Z came third. 4Z also won the Most Creative Design Award, 2Y won the Most Vibrant Design Award while 1U was awarded the Most Cooperative Award.
3. The Inter-class Cooking Competition was held on 3rd May 2018. The competition aimed at providing an opportunity for students to plan and cook a 2-course meal. The theme of the competition was “Rainbow”. Five teams presented appropriate and interesting dishes during the finals. 3X came first and this was followed by 1X. 2Y was third. 1U won the Most Creative Award while 3Z won the Most Cooperative Award.
4. The S3 Graduation party was held on 28th June 2018 at the Versailles Ballroom of the Regal Kowloon Hotel. Students were able to practice etiquette skills learnt during lessons and enjoyed the superb performances from all five classes.

S2 and S3 students enjoyed the class runway show and photo-taking where they showcased their skirts and restyled T-shirts. On top of that, the projects allowed girls to experience modeling and adjudicating. The best models were 2U Chan Tsz Ching and Liu Hiu Wai Jasmine, 2W Chan Carolyn Cheuk Yin, Chan Chung Ling Ava, Li Wing Yan, 2X Chin Chi Lam Gianna and Wu Xin Mei Madeleine, 2Y Luk Sze Tung, Poon Yan Wing Olympia, 2Z Chiu Janice Tsz Yu, Law Ho Yee Chloe, Lok Wing Hei, 3U Chan Man Hei Symphony, Wong Yuk Ning Natalie, 3W Hui Wing Kiu Chloe, Yu Hiu Lam Ashely, 3X Fan Chengyi and Liu Ting Nam Katrina, 3Y Kan Chui Hei Ivy and Ngan Ting Yu Yumi, 3Z Chan Wai Laam Athena, Cheung Hoi Ni Angel and Lau Choi Yu Elise.

As for external competitions and projects,

- 2W Ng Hoi Yin, 2Z Lee Hoi Tung, 3W Chan Chiu Wing and 3W Hui Yuk Ting took part in the 5th Hong Kong “Daddy, mummy, have a meal!” Charity love meal activity on 5th October 2017 in Southorn Stadium, Wanchai. Together with 213 teenagers, they helped to achieve a world record as witnessed by the World Record Association for the most number of teenagers cooking the love meal at the same time.
- The PAVAS Education Foundation Limited also hosted a “Daddy, mummy, have a meal!” Inter-school cooking competition at the Towngas Cooking Centre on 26th November 2017. The team comprising 2X Choi Hoi Tung, 4W Ng Tsz Sum Shemaiya and 4Y Ng Rita was the first runner-up.
- 2X Selina Choi, Bernice Tsui and Victoria Wong took part in the Hong Kong Federation of Youth Groups Cooking Competition and gained valuable experiences.

- 3X Selina Kwok and Bonnie Lai achieved the second and third prize respectively in the 2018 HK Flower show – Floral Art by School Children Section 10 Class 87 titled “In Blossom”.

This year 3W Hui Yuk Ting Victoria, 2U Ip Tsz Oi and 1Z Cheung Ka Yan had demonstrated outstanding work in both FST and FCT aspects and were awarded subject prizes. Congratulations are in order to all those who have worked energetically and diligently.

Before closing this report, I would like to show my appreciation and gratitude to the school FM team, Ms. E. Lok, Ms. P. Ho, Janitor Yuk Tse, Mrs. Anissa Wong, Mr. Raymond Kong, the DOGA, the PTA, the chairladies and committee members of the Food Technology Club and the Hospitality team as well as the Technology and Living Prefects for their support, dedication and hard work. Last but not least, I would like to thank our Headmistress, Mrs. Lau, for her unfailing guidance and support.

6.3 Business and International Studies Department

Mr. A. Ebrahim

The Business and International Studies department aims to equip students with life-long skills and practical knowledge to thrive in a dynamic and complex global market.

The department’s primary responsibility lies with delivering the Business, Accounting and Financial Studies (BAFS) HKDSE elective to senior school students. As its name suggests, this comprehensive subject consists of a broad array of topics, ranging from investment analysis, preparation of accounts and financial statements, to marketing skills, stock trading concepts and knowledge of our business environment. Students actively learn about the world of business and develop skills applicable to all professional walks of life.

This past year, students continued to excel in this subject. The seventh cohort of HKDSE results for BAFS were outstanding with five students receiving 5** and a further five receiving 5*. Li Yui Yan Veronica in S5 received the HKICPA Scholarship for Secondary Schools. Additionally, many BAFS students continued to sit and achieve excellent results in HKICPA examinations.

Activities and competitions outside of the classroom were equally important to achieving our objectives. Six S4 students joined the Consumer Culture Study Award 2017-2018 organized by the Consumer Council; all of them received Certificates of Participation. Additionally, thirteen S5 students formed three teams to participate in the HKICPA Accounting and Business Management Case Competition 2017 – 2018; they received Certificates of Merit. Several S4 girls also participated in the Young Founders business plan workshop where they were assigned a mentor and were required to create a business plan and pitch that idea to the organizers who represented potential investors. One girl, Laetitia Yuen, was in the championship winning team. The common theme across these competitions was the opportunity to apply classroom knowledge to real-life business situations and so enhance their understanding of the world of Business today.

The department strongly believes that practical experiences and self-directed learning play a crucial part in the learning of Business. To that end, S4 students participated in a Stock Market Simulation on Investopedia.com where they traded financial securities using a synthetic US\$1,000,000 portfolio via a market simulator. Furthermore, five S3 girls participated in a series of personal finance workshops and were then required to design and run their own workshop for junior students. After this they had the opportunity to meet the HKSAR Financial Secretary and provide suggestions for the annual Budget. Moreover, as part of the S4 BAFS course, all S4 students were required to create their own videos which illustrated a particular BAFS concept that they had learned in class. The story-line and content of the videos were all originated by the students, with two videos being selected to be used by the teachers in future BAFS classes as teaching tools. Finally, a large number of our S4 students had the opportunity

to visit BCT Group as part of a field trip experience to learn about their management of MPF funds and other financial trends in Hong Kong. All these learning opportunities offered DGS students invaluable and authentic experiences beyond the classroom.

The success of the department would be impossible without the support of others. Firstly, Mrs. Lau has steadfastly supported our plans and been a consistent source of guidance. Mrs. M. Cheng has proven herself to be an enthusiastic member of the department, and one who can capably educate and develop the students. All our partner organizations have also provided opportunities, their time and their resources to our students, and we owe them all a debt of gratitude.