

6. Technology Education

6.1 Information Technology

Mr. M. Nip

Entering the second year of the IT curriculum revamp, the department has continued its success in promoting STEAM education with a technology school approach.

With the Technology School initiative we started to promote a few years ago, DGS has been a pioneer in Hong Kong in reforming the IT curriculum with an emphasis on digital literacy and computational thinking. We believe that digital literacy and computational thinking are core skills for innovation and technology education. With our unique project-based and cross-curricular approach, we not only elevate students' basic competency in IT, but also nurture many innovators in our community. This is evidenced by the outstanding performance and inventions of many students who have received numerous awards in various IT-related competitions.

Our IT curriculum planning and implementation is also highly recognised by the Education Bureau. During the External School Review conducted by the EDB in November 2022, the ESR Team affirmed that our STEAM and Innovation education is highly effective and merits sharing as a notable case study with other schools in Hong Kong. In May 2024, DGS co-hosted a seminar with EDB, during which we shared our STEAM and innovation education. It was positively received and the highlight of the event was published on the EDB's website.

Video: https://www.edb.gov.hk/attachment/tc/sch-admin/sch-quality-assurance/professional-support-online-resources/seminar/dgs_20240307_tc.mp4

Other Information:

<https://www.edb.gov.hk/tc/sch-admin/sch-quality-assurance/professional-support-online-resources/seminar/index.html>

A curriculum is incomplete without extracurricular activities. This year, one of the highlighted ECA events of the department is the first-ever DGS virtual mini bazaar. DGS is the first school in Hong Kong to create our own virtual school and metaverse with a real-life application. In addition to our traditional Mini Bazaar, the DGS metaverse brought another level of excitement to the community during Christmas time. Through this virtual campaign, the whole community experienced the power of technology and the digital economy. It also provided an authentic experience for over 80 students in the virtual Mini Bazaar organising committee to put theory into practice. The DGS metaverse was a very successful and educational event of the academic year.

Besides the virtual Mini Bazaar, our Innovation and Technology Team won the Grand School Champion in the International Youth Tech Olympics for the second consecutive year. The team represented the school across eight competition categories: A.I., Augmented Reality, Internet of Things (IoT), robotics and drone coding. Out of these five categories, our school won six individual champions and three school champions, further demonstrating our successful implementation of technology education.

In conclusion, the department has headed in the right direction. Alongside our IT curriculum, our ECA covers all the latest technologies, such as fintech, artificial intelligence, metaverse, digital creative design, app development, etc. With these most up-to-date curricula and vibrant ECA learning opportunities, students have not only developed a strong foundation in digital literacy and computational thinking, but have also showcased exceptional skills and achievements in the field of technology.

6.2 Technology and Living

Ms. P. Ho

We offered a wide range of activities for students to enjoy learning and display their talents. The academic year started with the newly launched Fashion, Clothing and Textile (FCT) curriculum. We all shared the joy and had a fruitful learning experience.

With the opportunity arising from revamping our curriculum, Mrs. Lau supported the department by deploying a professional artist conducting the S2 FCT curriculum. Special thanks also go to Ms. Shirley Lee, Artist-in-Residence who developed an indispensable Cheongsam making course, providing students a treasurable learning experience about Chinese heritage and professional garment construction skills. All S2 girls were first introduced to the principles in fashion design concepts, doing wardrobe planning and appreciation of body silhouettes. During the 13 FCT sessions in the academic year, students learnt different skills in garment construction like taking body measurements, tailoring and sewing a Cheongsam. As finale of the project, students prepared a runway show to exhibit their knowledge and skills of garment fitting, styling and fashion presentation. All the S2 girls shared the enjoyment and satisfaction in learning.

In the S1 and S3 FCT curriculum, we implemented two social service projects. In S1, we had the “Angel Clothes” Sewing Service Project. With the support of the “Take Care Annie, Love Life Project” by YWCA Family Wellness Centre (Yau Yat Chuen), all S1 students were taught about the social issue on miscarriage and stillbirth in Hong Kong. They then learnt step-by-step the sewing skills needed to make “little angel clothes”, which were later offered to eight partner hospitals with obstetrics and gynaecology services for families who have experienced pregnant loss and infant death. Besides learning about basic sewing skills for their daily life, students gained a lot from this meaningful project. They learned to stay positive when facing uncertainty and to understand and treasure valuable family relationships.

In the S3 FCT, students participated in the “QEH Social Service Project” by sewing safety bags for blood cancer disease patients receiving chemotherapy treatment and the design project “Textile Design for the People with Disabilities”. All S3 girls were assigned to study the background information about the challenges faced by people with disabilities. They presented a detailed proposal outlining the service target’s needs, the concepts behind the proposed textile product and the action plan for production. During the prototype development, they engaged in the design process, assessed feasibility and communicated their results.

In the Food Science and Technology (FST), as part of the S2 meal planning project, students were first introduced the principles and techniques in analysing the nutritive concerns of different age groups. A timed-practical assessment was held at the end of the term, where all students were required to design a three-course meal menu in groups of four and complete a cooking assessment related to culinary art and food presentation. All students demonstrated exceptional culinary skills.

The “Food Product Design Project for Charity Fund Raising” was incorporated into the S3 FST curriculum. Students were engaged in designing and developing a food product for charity fundraising. They worked enthusiastically to research basic information about NGOs, to learn and showcase concepts and skills about food production, business planning, budgeting, packaging and stall decoration. The project yielded remarkable results. The girls demonstrated exceptional teamwork, creativity, precision and finesse in mass food production.

The Hospitality Committee headed by 5Z Chloe Wong and 4W Josephine Cheng as well as the Food Technology Club headed by 5Z Hazel Law and 5Y Jocelyn Chen assisted with the preparation of the tea reception of Speech Day. The committee members from both teams exhibited outstanding skills and extraordinary dedication in preparing and serving delightful refreshments at numerous school events, delighting guests and staff alike. The girls experienced satisfaction and joy from their hard work and service, culminating in a sense of success.

For internal activities and competitions, the committee members of the Food Technology Club also helped in planning and organising five OLP sessions for Chinese and western pastry making as well as cake and dough

making. This treasurable experience has enlightened the school and a cake decoration competition was held in mid-July. A group of girls from S2 and S3 including 2Z Chan Yuen Kay, 3X Lau Tsoi Wing Zoie, 3X Lim Trinity Zhuo Ning and 3X Ma Yung Wai Jocelyn emerged as champions by showcasing excellent skills in cake decoration and adeptly interpreting the theme “DGS 165th Anniversary Celebration”.

A new activity “Styling Competition” was successfully held at the end of the academic year. The theme “Time Travel” required all participants to incorporate elements and skills creatively from clothing restyling and styling, and exhibit their fashion sense to create a total look in the presentation and runway show. All the girls demonstrated marvellous skills in hair styling, on-stage make-up, modelling and storytelling. The winning group, consisting of 4Y Alison Wong, 4Z Chloe Cheung, 4Z Cadence Ho, 5W Anke Lam and 6Y Ashley Cheung, clinched the titles of “Best Model” and “Best Designer”.

As for subject related activities, in the Fabric Pattern Design Competition, 3U Astrid Chan was the champion obtaining the highest votes. 4U Isabel Chung came second and 3Y Aster So came third.

This academic year, the junior girls have shown exceptional dedication and commendable effort in their work. It is with great pleasure that I extend my congratulations to 1Y Lo Hei Lok, 2U Choi Wing Wa, and 3U Yiu Tung Toby for their outstanding achievements in both FST and FCT, earning them subject prizes and to all students for their hard work and dedication throughout the year. The students have exhibited remarkable talent and enthusiasm in design, culinary arts and sewing practices. Their involvement in these activities has not only enriched their skills but has also fostered a deeper understanding of teamwork and empathy towards others across various subjects in the curriculum.

To close this report, I would like to show my sincere gratitude to our Headmistress Mrs. Lau, Ms. Shirley Lee, Mrs P. Kam and Janitor Yuk for their continuous support and dedication.

6.3 Business and International Studies

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 Accounting Module to senior school students. As its name suggests, this comprehensive subject consists of a broad array of topics, such as introductory management skills, preparation of accounts and financial statements, cost accounting strategies, 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 HKDSE results for BAFS was most pleasing with 65% of the students scoring Level 5 or above. Additionally, many BAFS students continued to sit and achieve excellent results in other related external assessments.

Activities and competitions outside of the classroom are equally important to achieving our objectives. This year, four girls joined The IdeaPOP! 2024 - Hong Kong Secondary School Student Startup Pitch Competition. This competition was sponsored by the Alibaba Entrepreneurs Fund and organised by the SEED Foundation. It enabled students to present their entrepreneurial ideas and to receive guidance and workshops from mentors. In doing so, the competition helped to foster creativity and innovative thinking. Separately, five of our girls joined the 24th Millennium Entrepreneurship Programme. This programme was a joint project between schools, the business sector and NGOs. It enabled our girls to develop entrepreneurial skills and empowered them to create real businesses through social study projects. Yau Yau in Secondary 5 was awarded The Outstanding Presenter prize, while the DGS team was selected to receive “The Most Astonishing Team Spirit

– All Participants’ award. These experiences were all educational and rewarding, as girls were able to utilise their research, creative and problem-solving skills in the process of producing their work.

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. Ms. T. Siu proved herself to be an enthusiastic and capable member of the department who built a good rapport with the girls and ensured that they were all able to thrive in their learning of BAFS. All our partner organisations have also provided opportunities, their time and their resources to our students, and we owe them all a debt of gratitude.