STEM Education at SKHBBSS

2021-22

24th Hong Kong Youth Science and Technology Innovation Competition 2021-2022

Our students achieved an outstanding result in the 24th Hong Kong Youth Science and Technology Innovation Competition 2021-2022, which was organized by Hong Kong New Generation Cultural Association. Our team members included 3A CHAU Hei-lam Zoe, 3D PANG Sze-yan and 3D CHU Chi-to. Dr. CHAN Kwok-keung was their mentor.

International Junior Science Olympiad 2022 - Hong Kong Screening

This was our fourth participation for the competition. 3A Chau Hei-lam Zoe won the first class honour (4.5% in HK), 3A Wong Shing-hei won the second class honour (9.7% in HK), 3B Chan Sum-leong and 3C Yeung Yu-ching both won the third class honour (18.0% in HK). Congratulations to the students, and many thanks to our teachers Mr. Chan Kin-man, Mr. Chan Tsz-man, Dr. Chan Kwok-keung and Mr. Chan Lok-hin.

香 港 資 優 教 育 學 苑
The Hong Kong Academy for Gifted Education

Gifted Education Satellite Centre (GESC)

Our school and the Hong Kong Academy for Gifted Education co-organized a Biotechnology Course (Level III): Trends in Modern Biotechnology (I) (E3BTE001C) in December 2021. Target participants were S3 – S6 HKAGE student members and our students with priority. Our biology teacher, Dr. Chan Kwok-keung was the instructor of this courses

Session	Date	Time	Venue*
1	11 Dec	9:00 a.m. – 12:00 noon	Classroom 406
2	18 Dec		Classroom 406
3	23 Dec		Biology Laboratory
4	28 Dec		Biology Laboratory
5	29 Dec		Classroom 406
6	31 Dec		Biology Laboratory

香 港 資 優 教 育 學 苑
The Hong Kong Academy for Gifted Education

Gifted Education Satellite Centre (GESC)

Trends in Modern Biotechnology I (E3BTE001C)

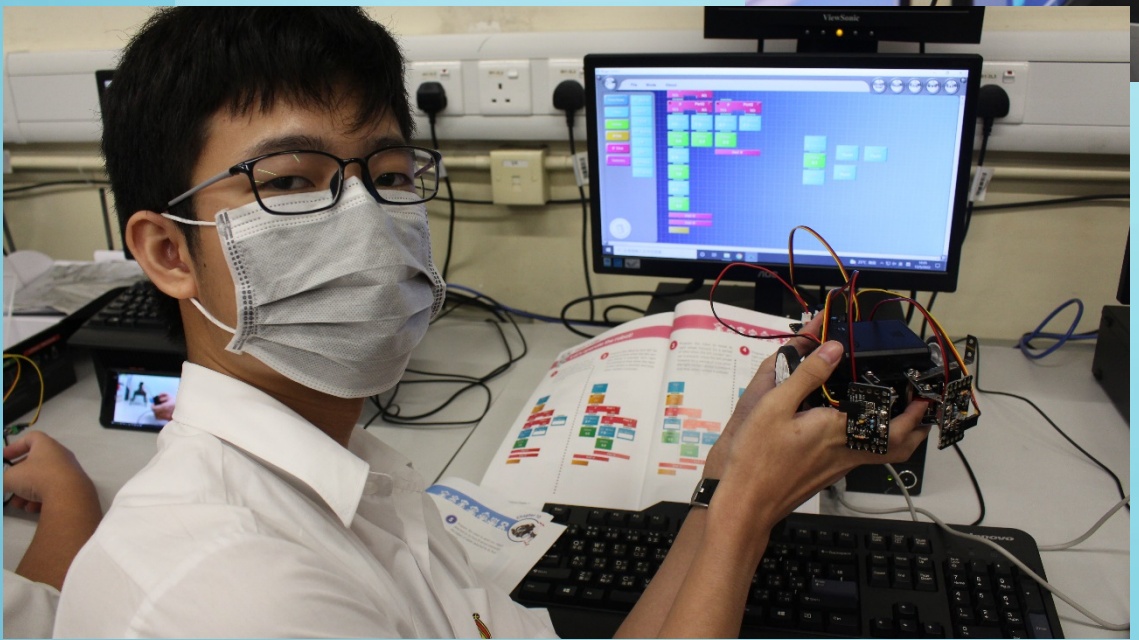
EMSD *School Outreach Exhibition*

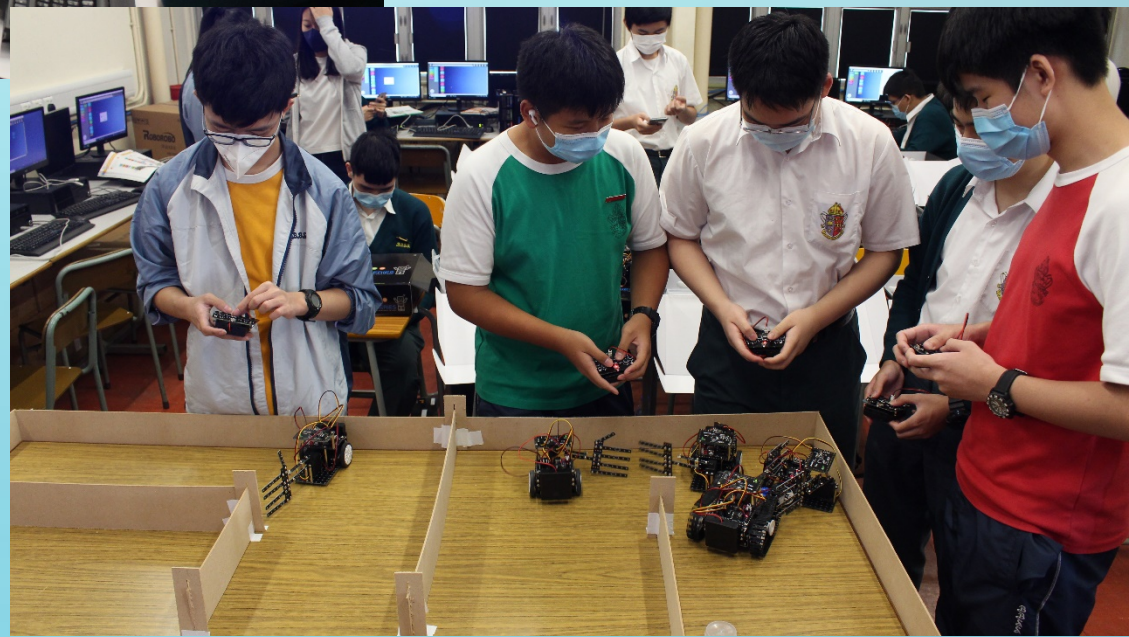
To facilitate students in choosing energy-efficient appliances and raise their awareness on energy efficiency and conservation, Mr. Chan Tsz-man of physics had arranged School Outreach Exhibition provided by EMSD.

QEF *Project: Robotic arm*

This project aims to establish a robotic arm laboratory and related STEM courses, covering from theory to practical applications. This project was demonstrated at Learning & Teaching Expo 2021.

16-hours workshop for smart car organized by Mi Teen Academy





2020-21

23rd Hong Kong Youth Science and Technology Innovation Competition 2020-2021

Our student achieved an outstanding result in the 23rd Hong Kong Youth Science and Technology Innovation Competition 2020-2021 which was organized by Hong Kong New Generation Cultural Association.

2C Chiang Cheuk-ting successfully won the Science Friction Drawing (Secondary Division) 3rd Place Grand Award. The Drawing Title was “Shuttle Ball”, and Dr. Chan Kwok-keung was her mentor.

The Greater Bay Area STEM Excellence Award 2021 (HK)

Our students achieved an outstanding result in the Greater Bay Area STEM Excellence Award 2021 (HK) which was organized by Hong Kong New Emerging Technology Education Association.
3A Yeung Peony, 3C Zeng Meng-qiu, 3B Li Nicole successfully won the Science Lab Stream Secondary (Junior) School Merit Award. Dr. Chan Kwok-keung was their mentor.

2021大灣區STEM卓越獎 （香港區）

The Greater Bay Area STEM Excellence Award 2021 (HK)

Our students achieved an outstanding result in the Greater Bay Area STEM Excellence Award 2021 (HK) which was organized by Hong Kong New Emerging Technology Education Association.

4C Wong Yat-ching, 4B Wu Sau-ying Zoe, 4D Yau Josh, 4D Hou Chin-pang successfully won the Science Lab Stream Secondary (Senior) School Merit Award. Dr. Chan Kwok-keung was their mentor.

HKNETEA
香港新興科技教育協會

The 14th Hong Kong Budding Scientists Award

Our students achieved an outstanding result in the 14th Hong Kong Budding Scientists Award (HKBSA) competition which was co-organized by the Gifted Education Section of the Education Bureau and the Hong Kong Association for Mathematics and Science Education. Team members included 4C Wong Yat-ching, 4B Wu Sau-ying Zoe, 4D Yau Josh, 4D Hou Chin-pang. Dr. Chan Kwok-keung was their mentor.

The research theme of their investigation was ‘Inhibitory potential of natural flower teas for management of diabetes’. They explored, investigated and experimented the hypothesis, and finally won the Champion Award in HKBSA competition. In addition, our report on an interview with a scientist (Prof. Joseph JY Sung) also won the Reporter Award.

Solar Harvest – Energy Support Scheme

We have joined the “Solar Energy Support Scheme” coordinated by Solar Harvest and Electrical and Mechanical Services Department. The system has been successfully installed and is generating electricity. This scheme promotes renewable energy while the electricity generated reduces the fee of our school. It is also part of our Integrated Science curriculum which is a good experience of STEM knowledge application.

2019-20

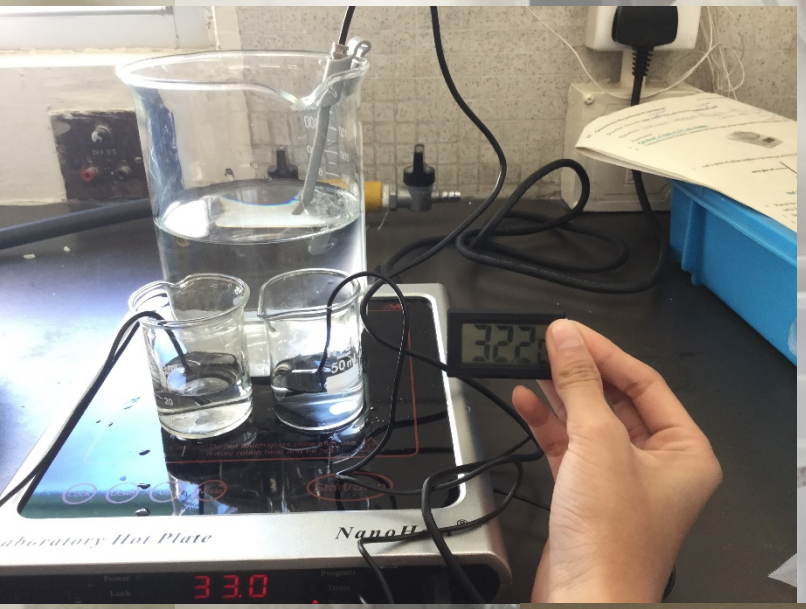
22nd Hong Kong Youth Science and Technology Innovation Competition 2019-2020

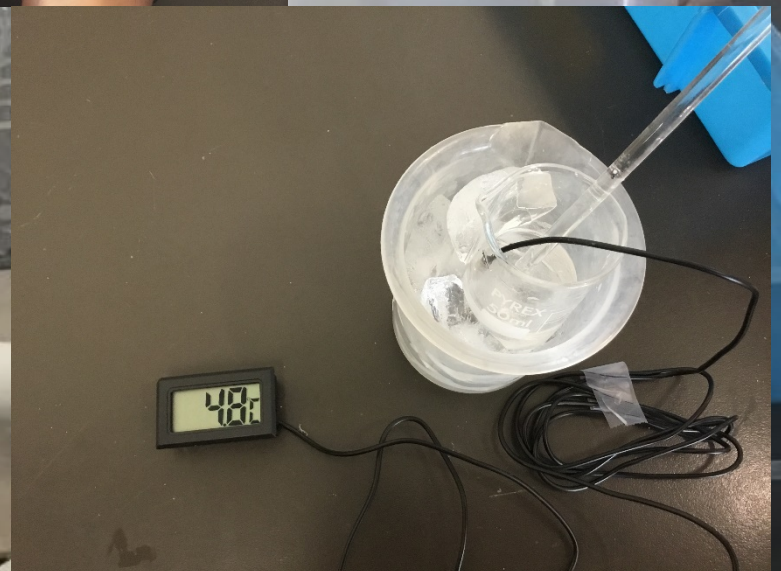
Our students achieved an outstanding result in the 22nd Hong Kong Youth Science and Technology Innovation Competition 2019-2020 which was organized by Hong Kong New Generation Cultural Association. Our team members included 2A Yeung Peony, Zeng Meng-qiu, Li Nicole and Dr. Chan Kwok-keung as their mentor.

The research theme of their investigation was ‘Synthesis and characterization of degradable bioplastic from chitosan and starch’. Having explored, investigated and experimented the hypothesis, they were lucky to be selected as one of the 7 teams entering the final competition. Finally, our school successfully won the Energy and Environmental Science (Junior Secondary Division) 3rd Place Grand Award.

2018-19

Scientific Investigations in I.S. lessons – Solubility



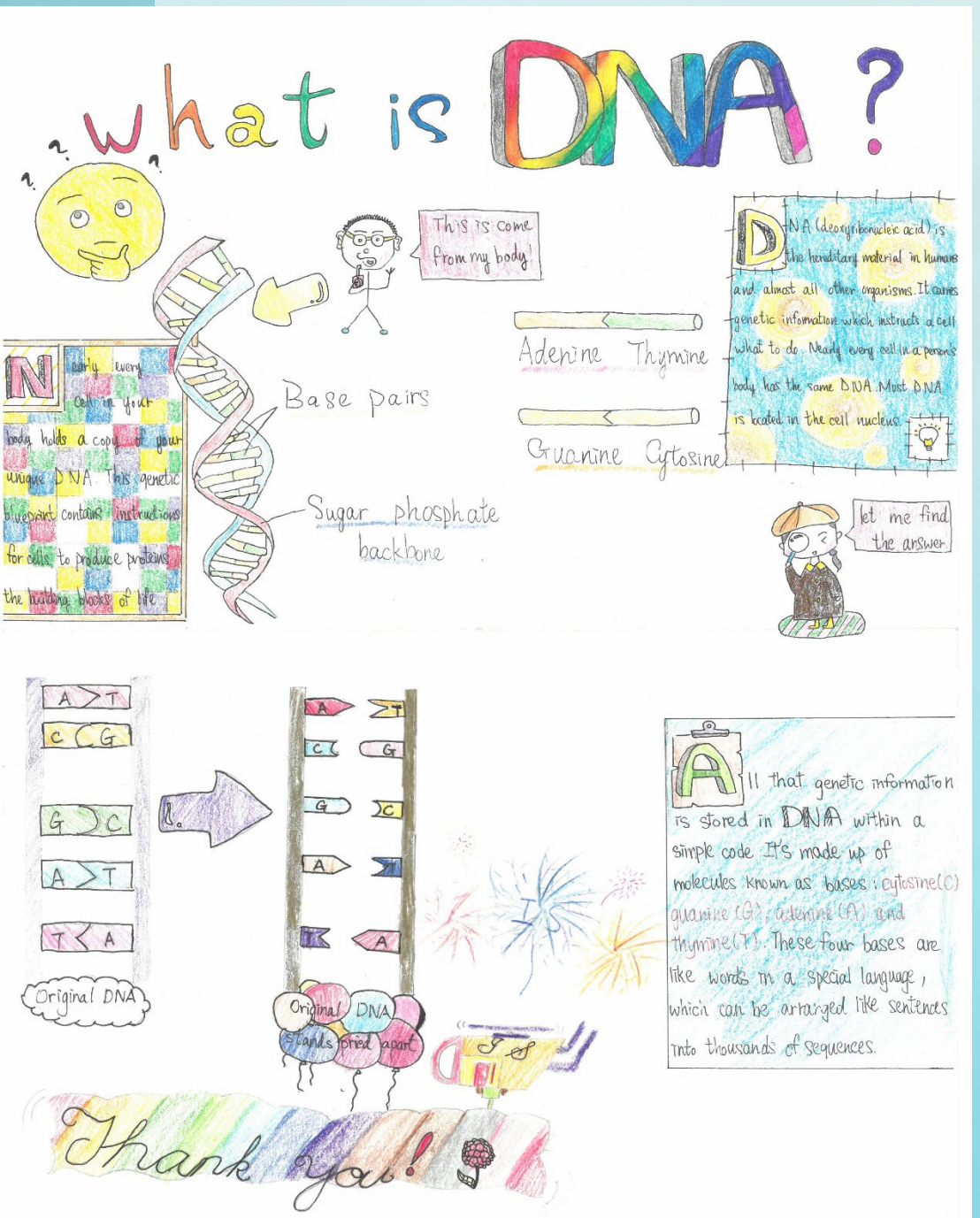


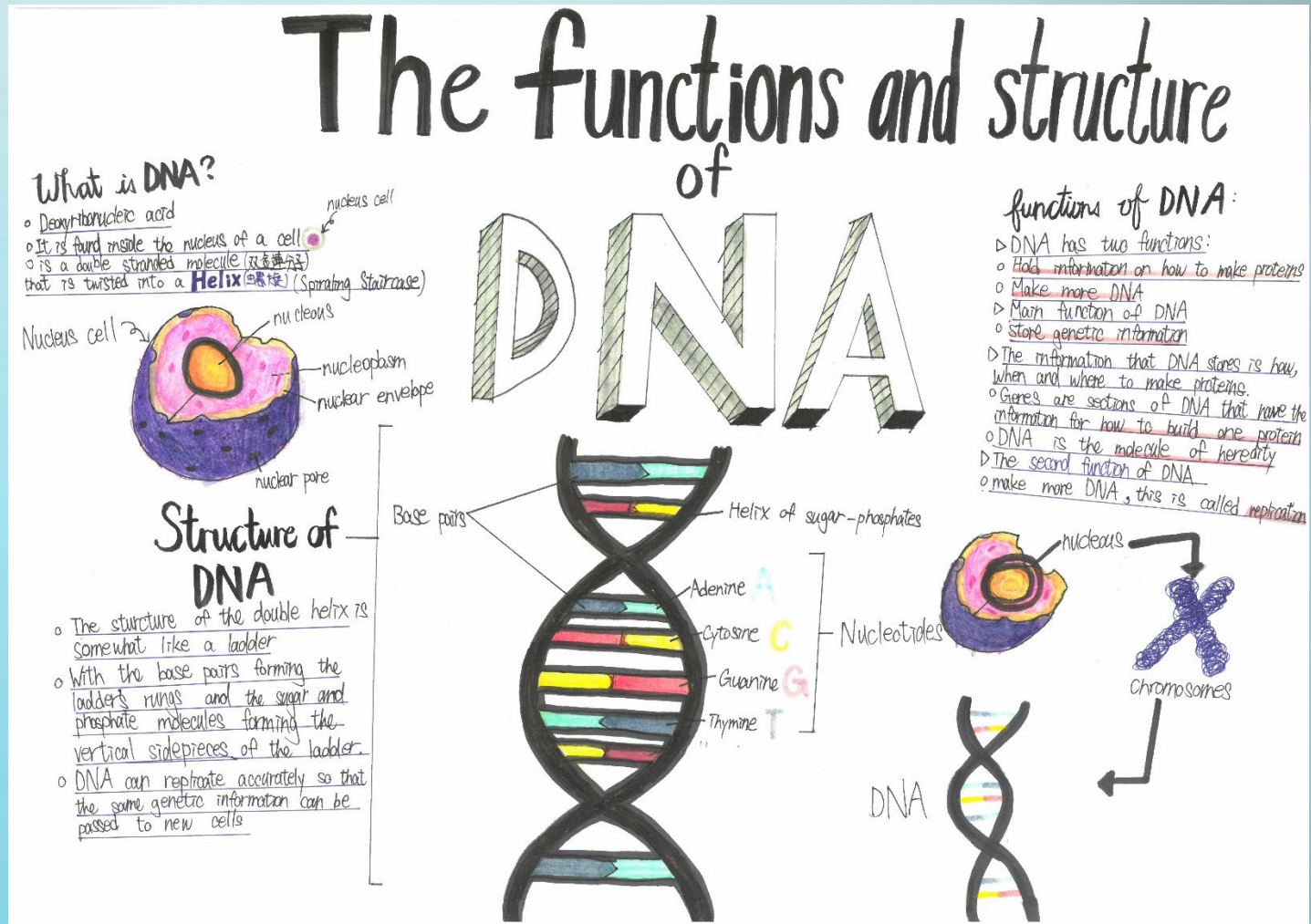
Good Mentor Scheme

Diversity Learning Day – Visit to STEM *and* VR *Education Centre*

Diversity Learning Day – Visit to STEM and VR Education Centre

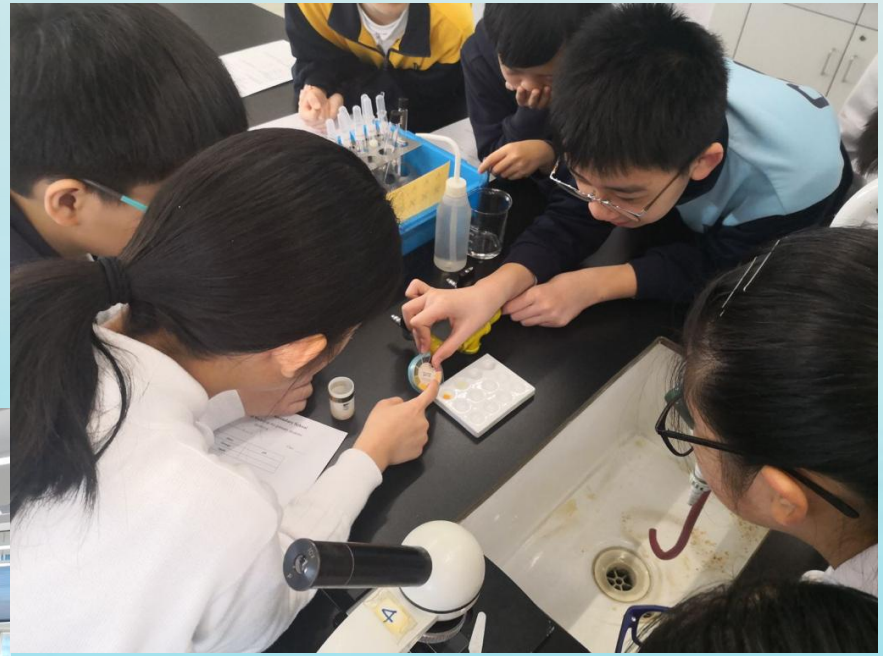
STEM *Poster Competition*





STEM *Workshop for P6 – Forensic science*

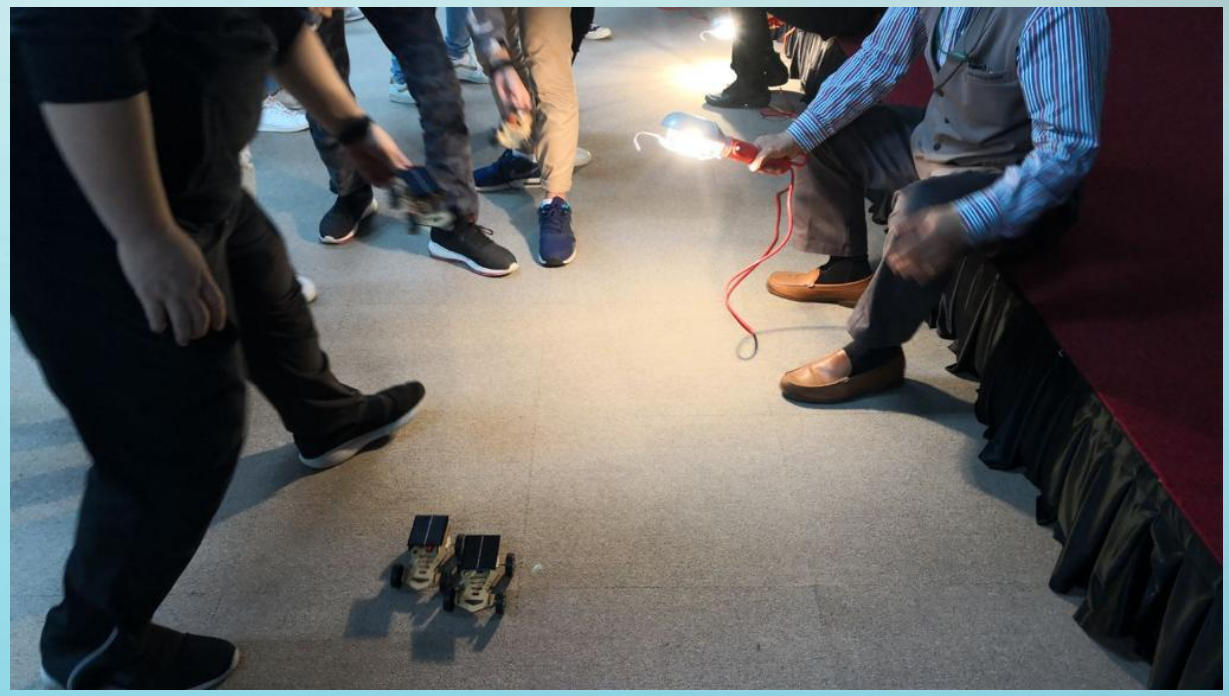
STEM *Workshop for primary 5 – Food tests*



STEM *Visit to Shenzheng,* HKUST *and* BYD

STEM *Visit to Shenzheng*, HKUST *and* BYD

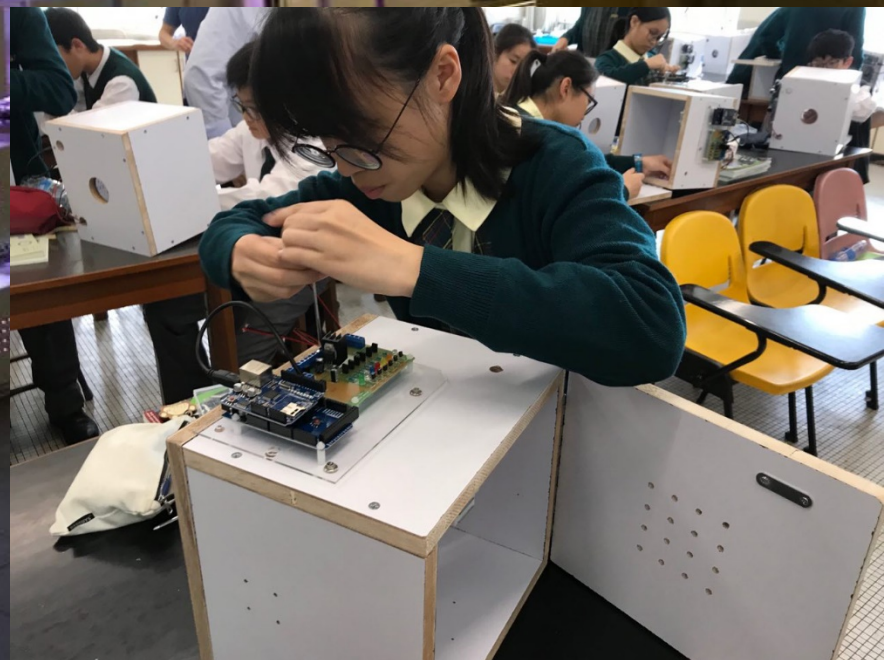
STEM *Tour to Korea*



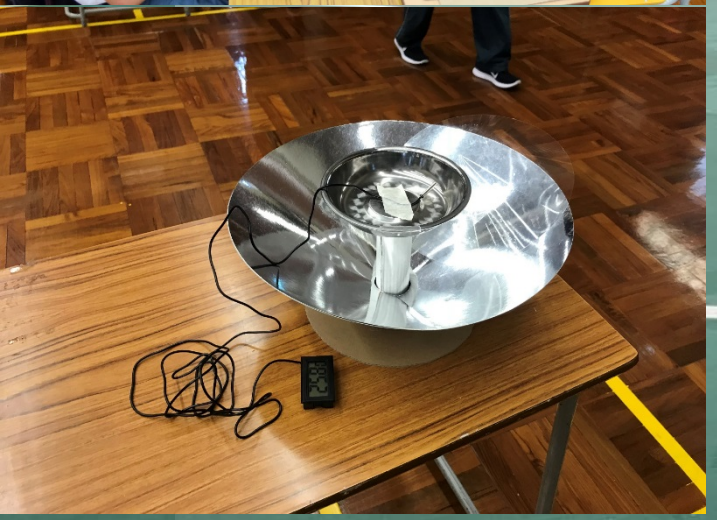
Exhibition at Ling Oi Primary School

QEF *Project :*
Controlled Environment Agricultural System

QEF *Project :*
Controlled Environment Agricultural System



STEM *Competition – Solar cooker*

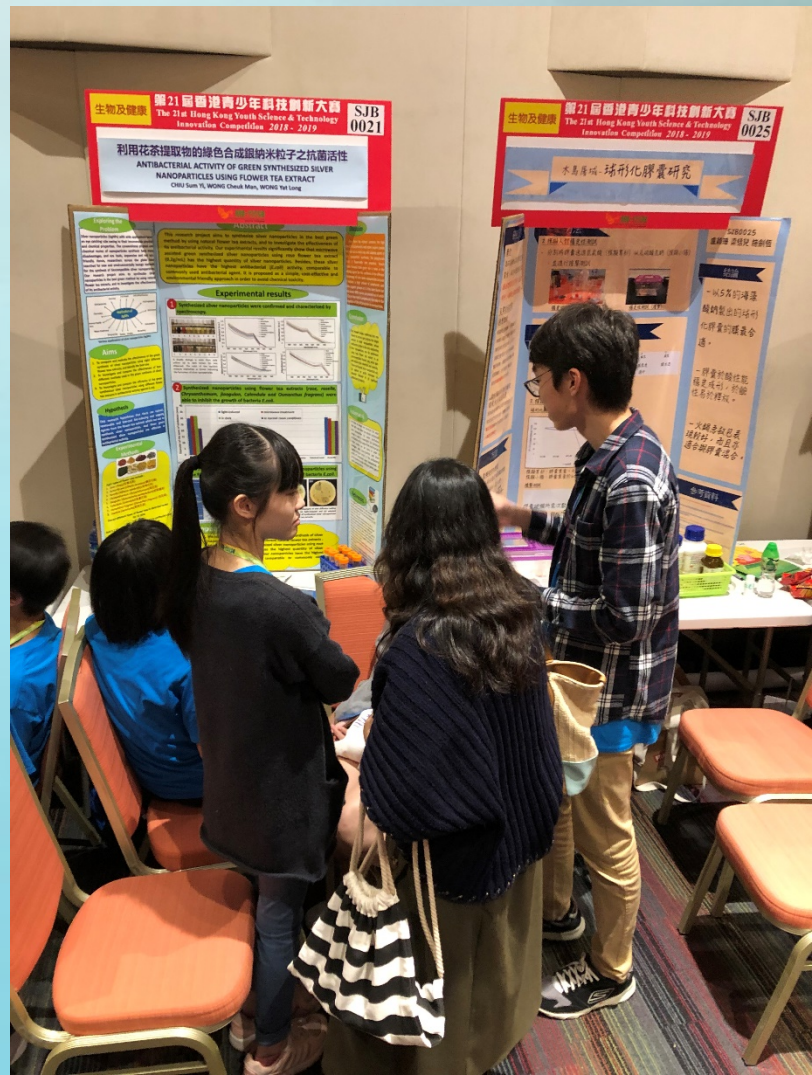


International Junior Science Olympiad 2019 - Hong Kong Screening

3A Wong Yat-long and 3D Chiu Sum-yi won 3rd honor rewards in International Junior Science Olympiad 2019 – Hong Kong Screening.

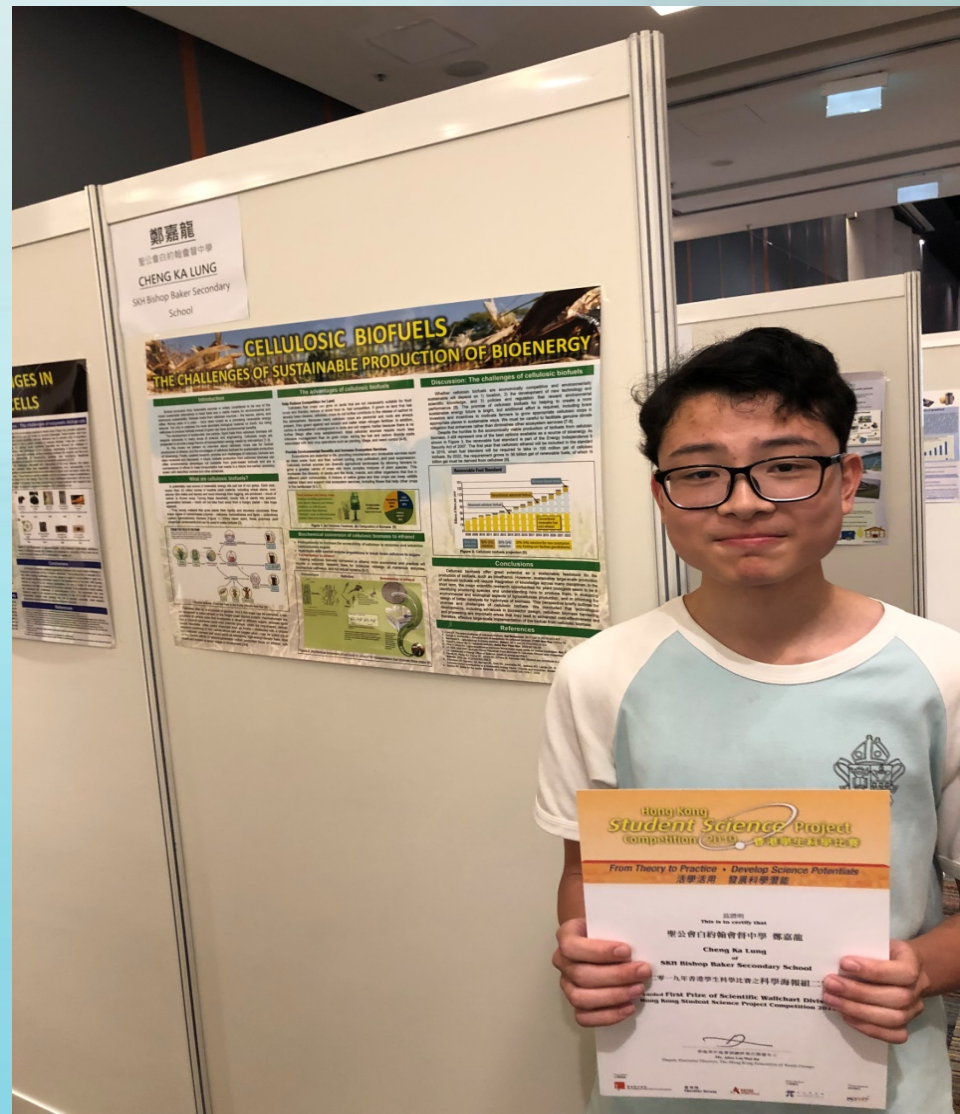
Hong Kong Youth Science and Technology Innovation Competition 2018-2019

3A Wong Yat-long, 3B Wong Cheuk-man and 3D Chiu Sum-yi won the Biology and Health (Junior Secondary Division) Merit award in Hong Kong Youth Science and Technology Innovation Competition 2018-2019.

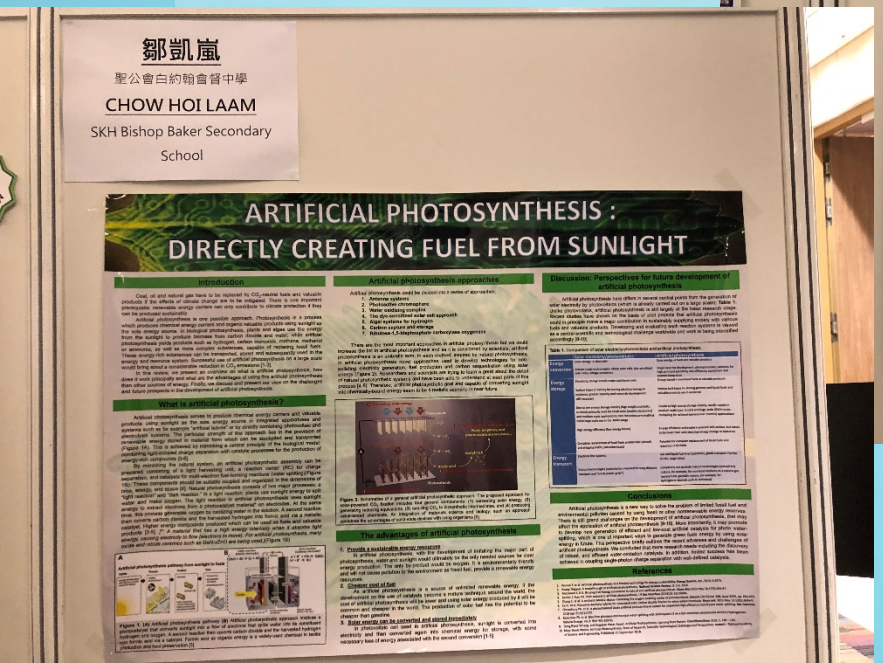


Hong Kong Student Science Project Competition 2019

4C Cheng Ka-lung won the Scientific Wallchart Division Second Prize in Hong Kong Student Science Project Competition 2019.



Hong Kong Student Science Project Competition 2019



Hong Kong Student Science Project Competition 2019

2A Wong Yat-ching, 2A Wu Sau-ying ZOE, 2A Hou Chin-pang and 2A Yau Josh won Junior Division Investigation Best Newcomer Award in Hong Kong Student Science Project Competition 2019.

Hong Kong Student Science Project Competition 2019

Hong Kong Budding Scientists Award 2018/19 Secondary Section

3A Wong Yat-long, 3B Wong Cheuk-man, 3B Cheung Chit-hei, 3C Li Yan-ho and 3D Chiu Sum-yi won the 2nd Runner-up in Hong Kong Budding Scientists Award 2018/19 Secondary Section.

Hong Kong Budding Scientists Award 2018/19
Secondary Section

Future Engineer Project 2019

12 students, from S2 to S4, participated in the Future Engineer Project 2019 hosted by EDB, and promoted to the final stage.

Reading to learn

We subscribe the journal “Science” from HKUST for all S1 and S2 students.

香港科技大學
THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY

HKUST School of 理學院 Science