

# SCIENCE

@ SALESIAN





Welcome to Salesian English School! Welcome to the world of science and mathematics! In this issue, we are going to share with you the happy moments of learning science in our school.

## A. The learning environment

Welcome to our laboratories! This is where we do the experiments and some interesting workshops.

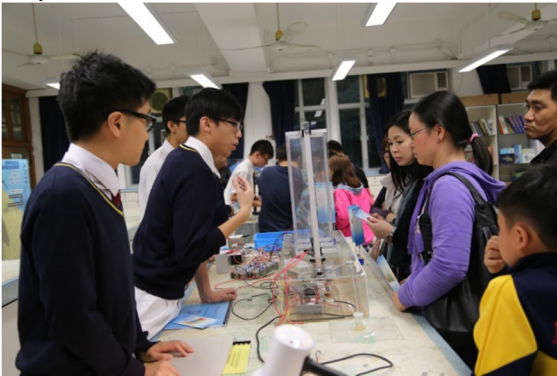
Integrated Science Lab



Chemistry Lab



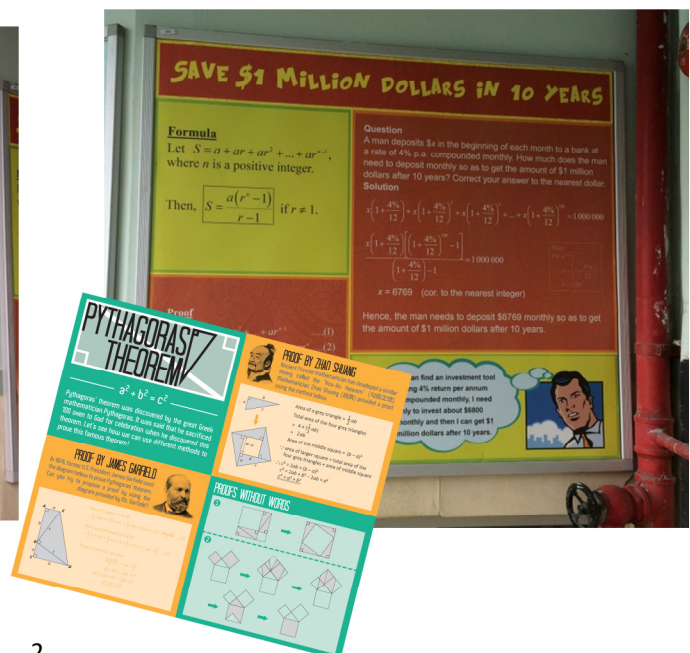
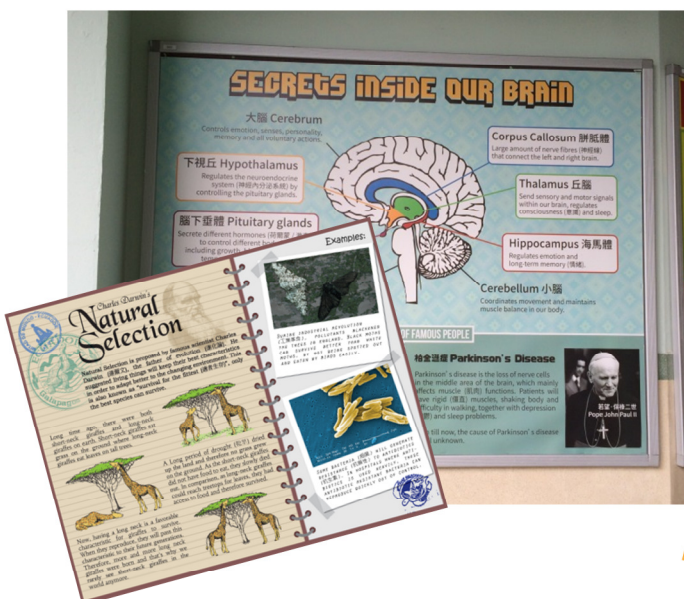
Physics Lab



Biology Lab



You can also find some interesting facts about science and maths in our campus. Do you know the answers?



## B. Science activities

### 1. ROBOTICS

Do you like robots? Are you interested in making robots?

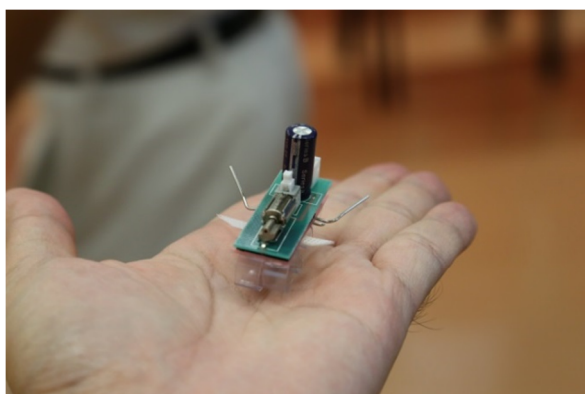
We have many chances for you to try. It is good fun!

Let us share the happy moments with you!

#### a. Mini-robots competition (微型震動機械人接力比賽)

We have a lunch-time competition in our school and select the best students to form two teams for the open round competition organised by the HK New Generation Cultural Association.

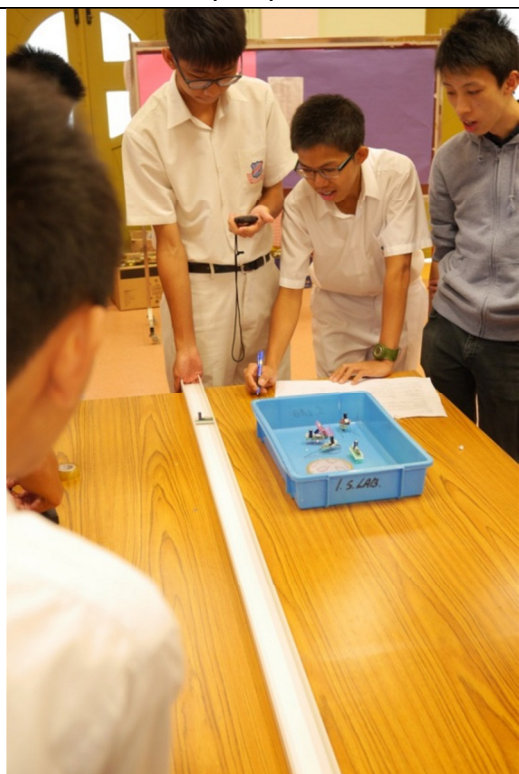
*At Salesian English School (28 Oct 2014)*



The robot is very tiny!



Fine-tuning the robots for competition.



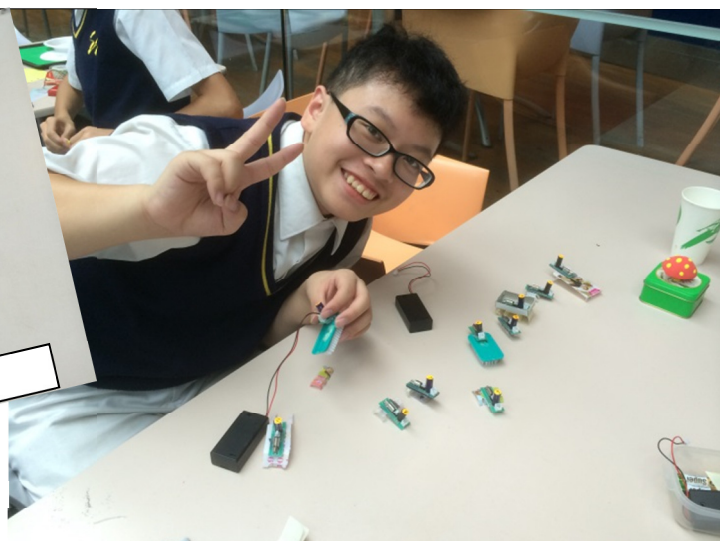
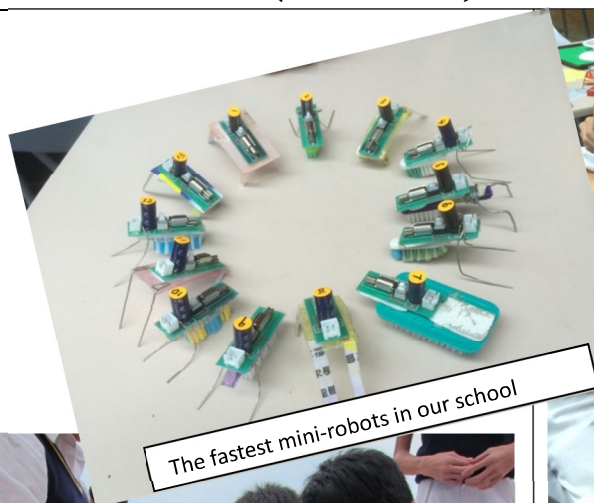
See which one is the fastest to complete the race.



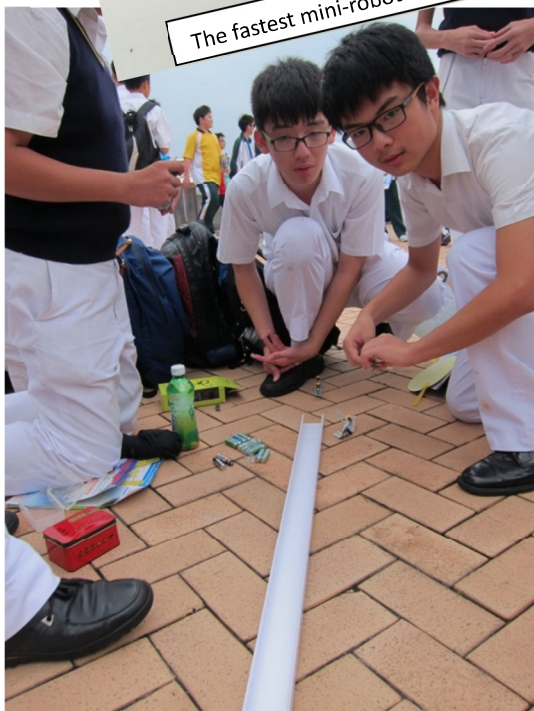
Here are the finalists!



*At The Science Park (7<sup>th</sup> Nov 2014)*



Our promising young engineer!



We are serious and have good team work!



We won the 1st runner up (全場亞軍), 1<sup>st</sup> prize (一等獎), 2<sup>nd</sup> prize (二等獎) and the best design robot award (最佳設計獎)!



## b. LEGO Robotics competition (WRO)

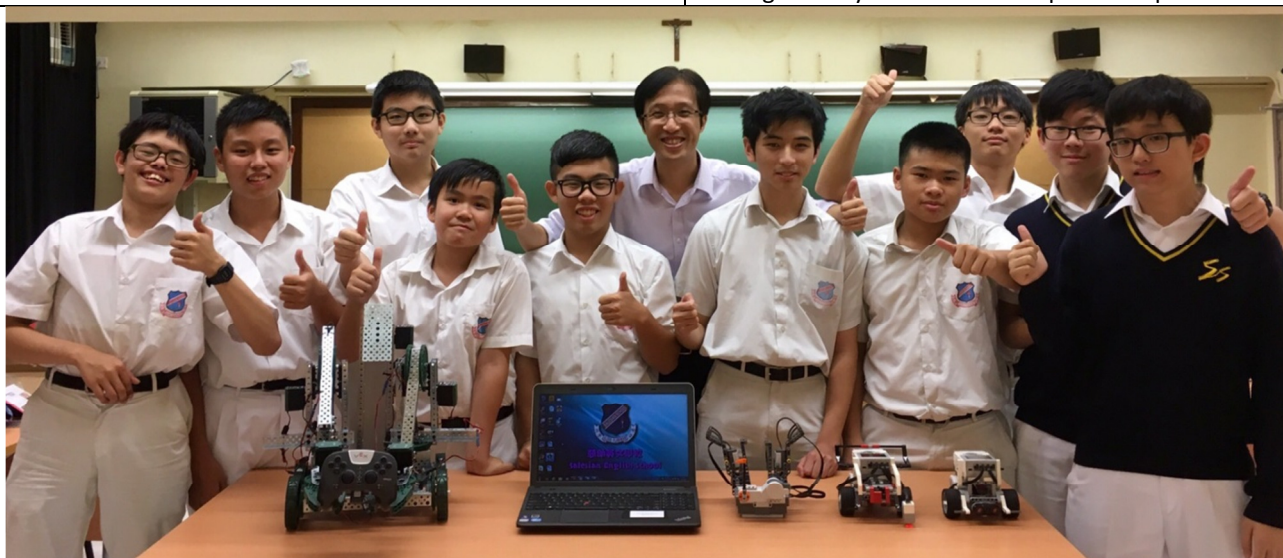
We also have a LEGO robotics team in our school. We have regular meetings after school to learn coding and setting the LEGO robots. It is good fun!



We have different models of robots for you to try!

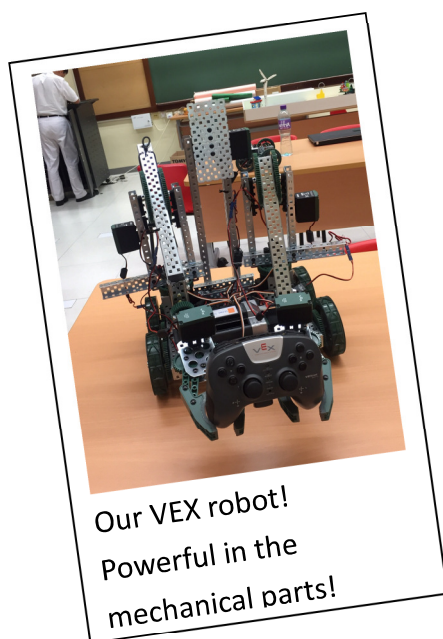


It is a good way to train our discipline and patience.

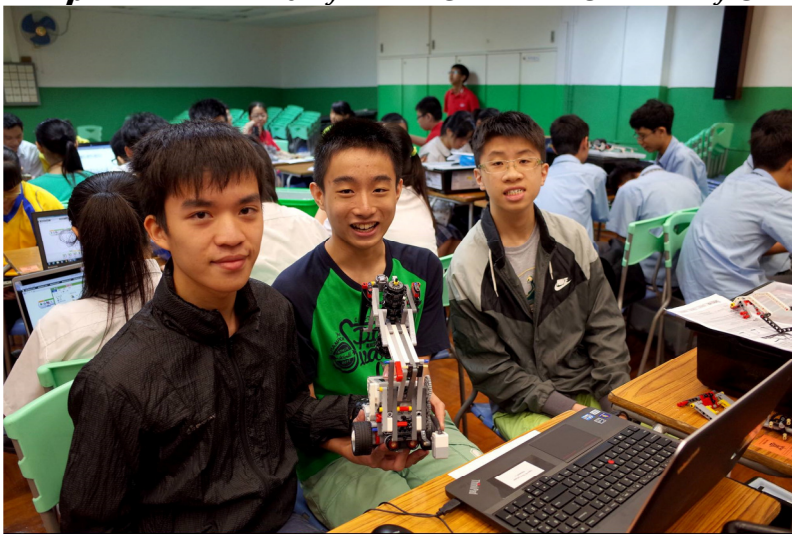


Join us if you like robotics! Our teacher advisor, Mr. Chan Kong Wei (middle) with the promising young men.

We also encourage our students to participate in other competitions to meet new friends and improve their skills to widen their horizons.



### ***Competition on 4th July 2015 @ Carmel Secondary School***



**WRO WORLD ROBOT OLYMPIAD HONG KONG ROBOT CHALLENGE**

Our students (from left to right) Cheung Shu Long (張書朗), Tang Lok Tin (鄧樂天) and Chan Yuk Chi (陳煜智) in the WRO.



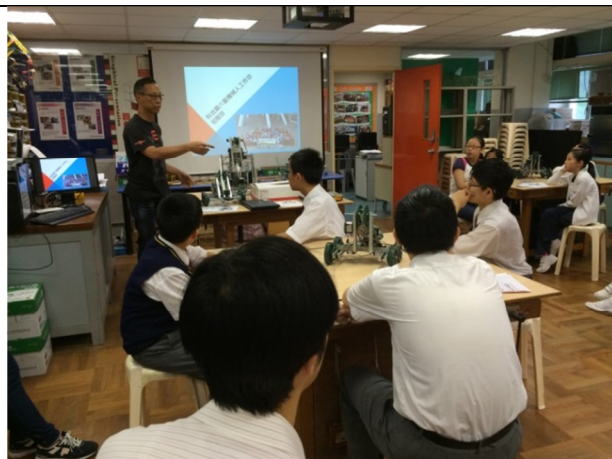
### c. VEX robots competition (VEX 機械人比賽)



We are the partner school with the Engineering Department, The Chinese University of Hong Kong and Hong Kong Technology Education Association (香港科技教育學會) in the project "Six Arts in Technology" 「科技顯六藝」. We decided to use the VEX robot to serve tea!



Our school as one of the partner schools of the project



We have workshops on setting and controlling the VEX.

### Competition on 4th July 2015 @ CUHK



Controlling our robot to serve tea.

See the video by visiting the following link:

<https://www.youtube.com/watch?v=DZxCyK5eAwI>



Our students, (from left to right) Wong Ming Chun (王銘俊), Ting Pak Hei (丁柏希) and Lee Ho Lam (李昊霖), are answering judges' questions



After many days of work, we won the 2nd prize in the field of "Art of Rites (禮)"!



This is our robot!



## 2. Creative Science

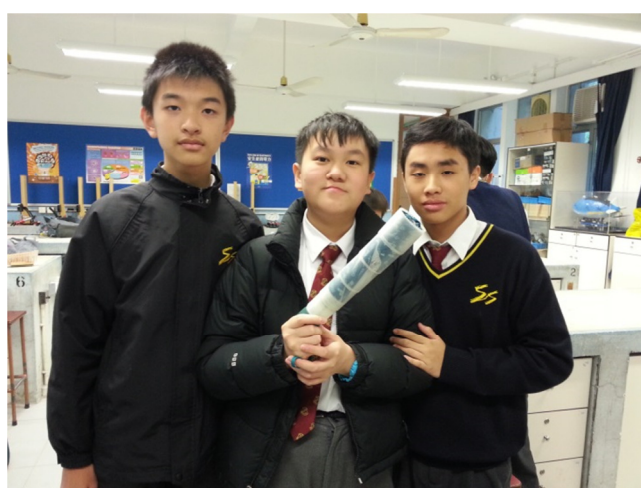
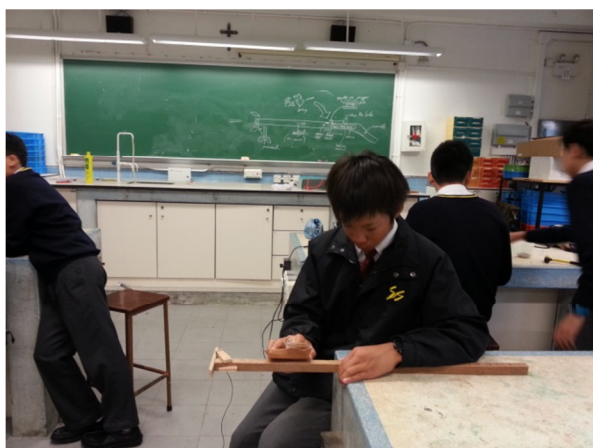
To foster creativity is the key to success in science. We organised different in-house workshops and participated in different competitions to gain experience. Our students enjoy it a lot and they also get good results!

### a. Young Inventor nurturing programme for junior students (初中科學尖子培訓課程——「少年發明家培訓課程」)

This is a training programme jointly organised by the Gifted Education Team of our school and the HK New Generation Cultural Association (香港新一代文化協會).

The workshop aims at equipping our students with the know-how in the making of a new product and how to think creatively to solve daily life problems. The students are grouped in teams to design a product which is to help the elderly in their daily lives.

Creative Science



Creative Science

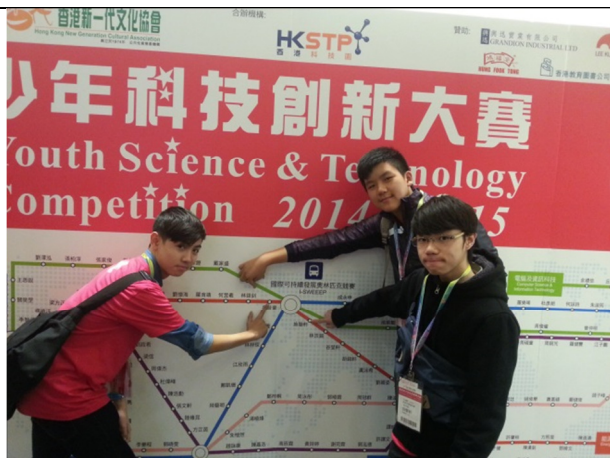
At the end of the workshop, the students need to present their products. This year, we have two teams successfully entered the final competition of the Youth Science & Technology Competition.



## b. Youth Science & Technology Competition (香港青少年創新科技大賽)

Two teams of our students won the prizes in the Youth Science & Technology Competition. We presented our products at the Science Park on 28-29 Mar 2015.

**29th March 2015 @ The Science Park**



**Team A**  
(in Energy and Environmental Science division) 能源及環境科學組



Teammates: Lam Wai Chiu (林緯釗), Ng Chun Ho (吳晉豪), Sze Kam Hin (施鑒軒)



**Team B**  
(in Physics and Engineering) 物理及工程組



Teammates: Kwok Wang Tak (郭泓德), Hui Yik Man (許譯文), Tam Ho Yiu (譚皓堯)

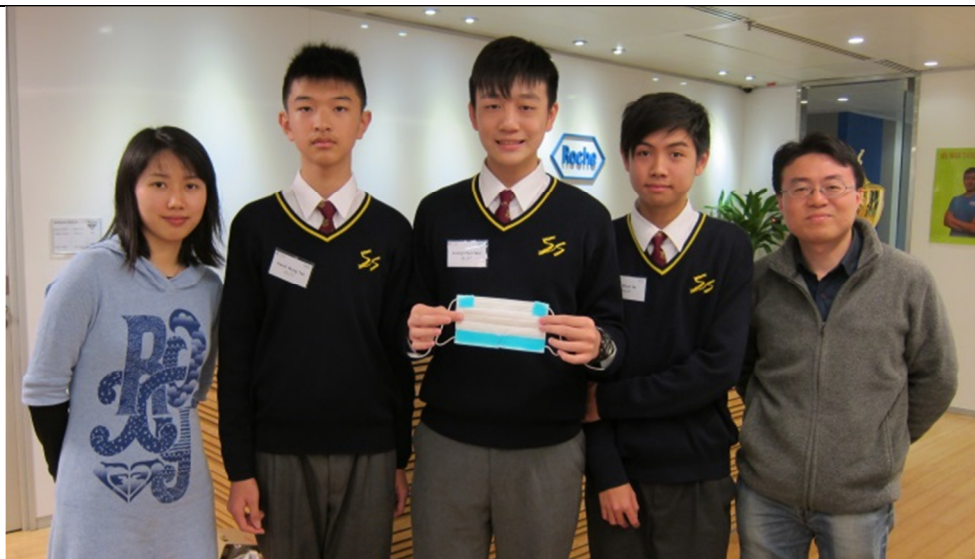


### c. The Roche Young Scientist Award (RYSA) (羅氏少年科學家大獎)

The Roche Young Scientist Award (RYSA) aims to uncover the scientist that lives within each of us, inspiring the youth of Hong Kong to embrace their sense of curiosity and challenge themselves to discover new ways that health science can improve the lives of people in our city.

Our students have entered the interview with the Judging Panel (second-round).

**14th March 2015 @ Roche Office**

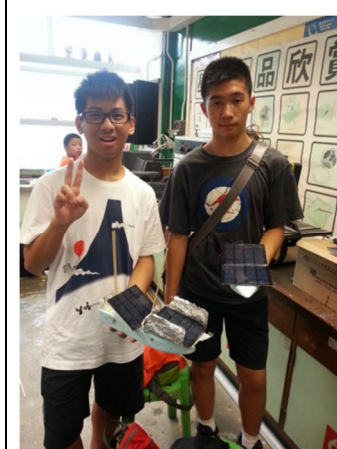
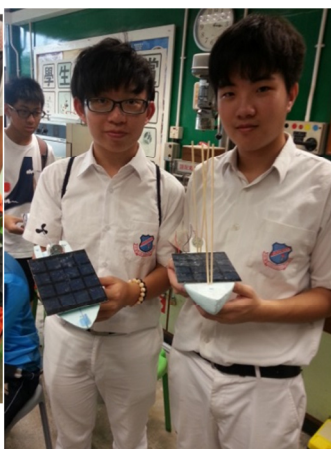
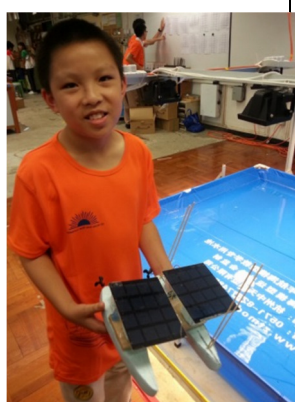


Leung Chun Wai (梁晉瑋), Ng Chun Ho (吳晉豪), and Kwok Wang Tak (郭泓德) with their teacher advisor, Ms. Wong Wing Sum (First left) and their product

### d. Solar Boat Challenge 「陽」帆之旅太陽能模型船創作大賽

Solar energy is a clean and renewable. Why don't we use it in our daily life to drive our boats? We joined the workshop on how to make a boat using solar energy. It is good fun to see the boats move under light!

**6th July 2015 @ Arts & Technology Education Centre (藝術與科技教育中心)**

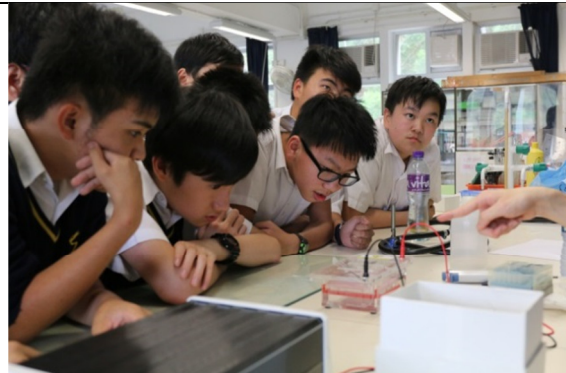


### e. Lunch-time experiment

Genetic engineering is one of the most widely used bio-technology skills in our daily lives. We had two lunch-time experiments to show how to make use of the technique of DNA fingerprinting(遺傳指紋分析) in forensic science (法醫學) under the demonstration of Mr. Leung Tsz Chung. Many junior form students came and were very much interested in it!



Students are listening carefully about the isolation of DNA.



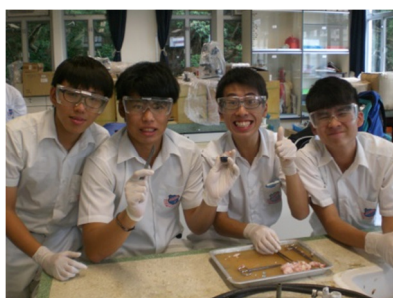
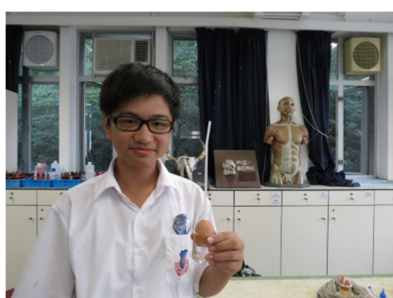
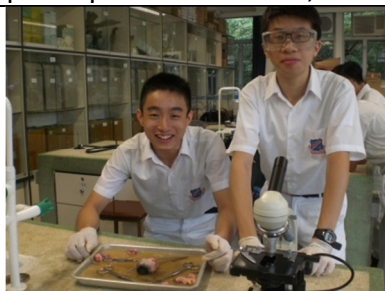
Students are observing the results carefully.



Students with our teacher Mr. Leung Tsz Chung (middle)

### f. Science club

We have science club with different themes (Physics, Chemistry & Biology) for our students to participate after school, such as leaf vein bookmarks, bull eye & frog dissection, ... Come and see!



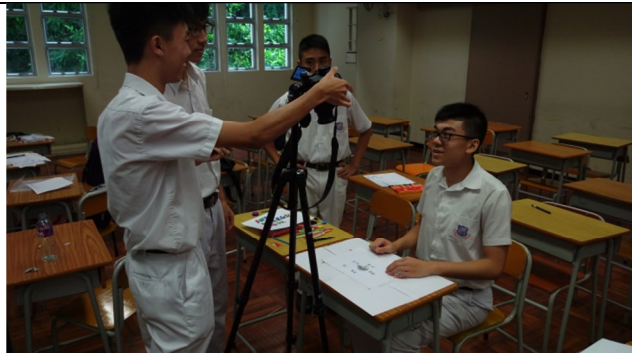


## g. Joint School Science Exhibition (48 屆聯校科學展覽)

Every year, senior students in our school participate in the JSSE. This year, with the theme SEASONS, we won the Most Popular Booth with the product **Anti-allergic mask**.



Thinking of the idea: How can we promote health with science? Anti-allergic mask!



The filming of the movie for our proposal.



Here is our booth: PH01  
20-23<sup>rd</sup> August 2015 @ HK Central Library



Our students are introducing our product to the public with patience.



A photo with Dr. Rebecca Lee Lok Sze (李樂詩)



At the prize presentation ceremony



We won the Most Popular Booth! Thanks for voting for us! Our teacher advisors, Mr. Cheung Chin Tao (2<sup>nd</sup> right) and Mr. Man Chi Tao (middle first row) are sharing the joy with the students.



### 3. Maths-lovers

Do you love mathematics? Can you see the beauty of mathematics?

Welcome to the world of mathematics!

#### a. Mathematics Olympiad 奧數訓練

Academically, we have maths teams to recruit students who love mathematics a lot. We will participate in different competitions in maths, such as the HKMO (香港數學競賽), IMO-HK pre-lim (國際數學奧林匹克香港選拔賽), Hong Kong Mathematics Creative Problem Solving Competition (香港數學創意解難比賽), etc.

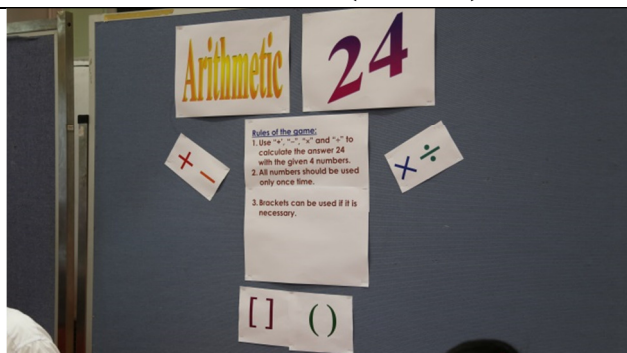


Our maths team at prize presentation with their teacher advisors Mr. Yeung Ka Hon (1<sup>st</sup> right) and Mr. Chan Yu Hong (2<sup>nd</sup> left), and also our principal (far left), Ms. To Yuk Yin



For the fun side, our mathematic society organised the Mathematic Week (數學周), math puzzles after school and other booth games in various fun fairs.

#### b. The Maths week (數學周)



The maths puzzle



Students are doing the math puzzles seriously.



How can I complete it faster?



Tangram: an ancient but also fascinating game



### c. Learning maths & science is fun! 奇趣數理天地

We organised the fun day on "Learning maths & science is fun" (奇趣數理天地) for primary students as well to promote science and maths.

**29th November 2014 @ Salesian English School**



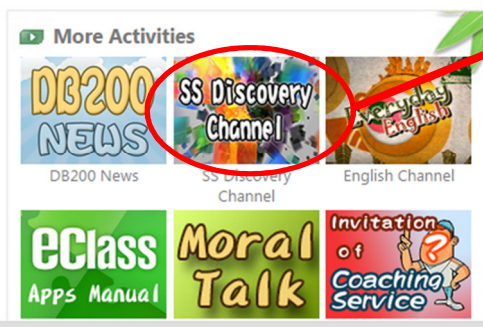
Learning science and math is fun for primary students



### d. SS Discovery Channel – Self-directed Learning via our School Web

Our science teachers also prepare some video clips on interesting science. You can come and see and learn more about science in an interesting way! Come to our website:

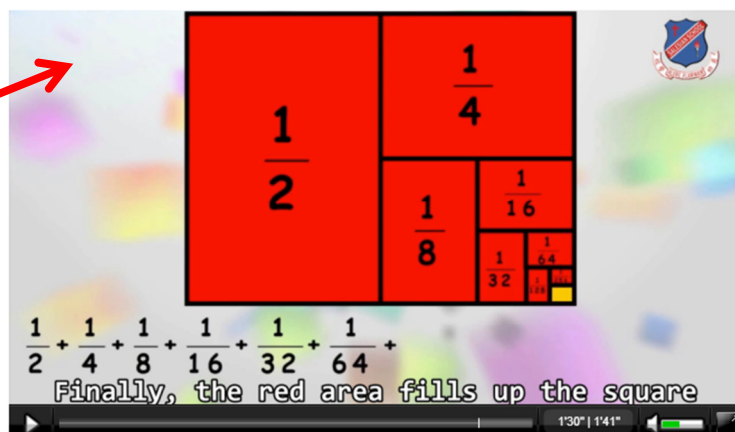
<http://www.ssshk.edu.hk/>



#### SS Discovery Channel Episode 2

SS Discovery Channel Go!

Date : 3rd Nov 2014





### C. Our Pride

We will nominate students with gifted talents to join the programmes organised by the EDB, the Gifted Academy and also other gifted programme for our students. Our students did very well last academic year in the field of science. We are proud of their achievements.

Mainland Exchange Programme for Student Leaders 2015 (Theme: “Science and Technology Development”) 6-10<sup>th</sup> April 2015

教育局舉辦領袖生內地交流計劃 2015 (主題: 科技發展)



LAU KWAN KIN (劉均健) and LO TSUN CHING (勞浚青) were selected to represent our school in this programme.

Science & Technology Seedlings 100 Plan (科技新苗 100 計劃)



Our ambassadors :

- Chan Ka Kwan 陳家軍 (5E)
- Leung Ho Man 梁浩文 (5E)
- Shih Wai Lun 施緯綸 (5E)



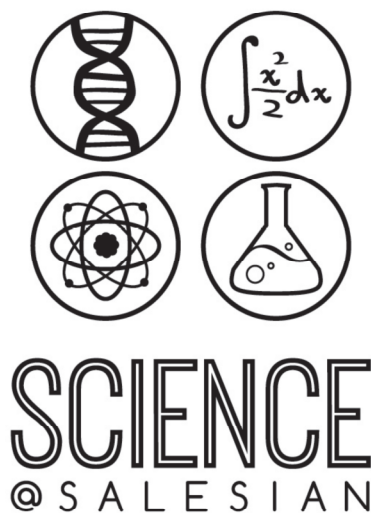
## Awards in science and mathematics

項目	成就/獎項	得獎學生
新一代文化協會 微型震動機械人大賽	亞軍 一等獎	趙國禧 3A、何偉賢 3A、許灝澧 3A、 梁家晉 3A、施鑒軒 3A、胡愷柏 3A 郭泓德 3B、呂綽軒 2B、吳明橋 2B、 湯健朗 2D
	二等獎	許譯文 3B、林柏璋 3B、梁晉瑋 3B、 宋澤軒 2A、何紀樂 2B、李昊璋 2B 蔡宗霖 2D、盧進濠 2D、曾梓桓 1A、 何旨行 1B
	最佳設計 大獎	許譯文 3B、梁晉瑋 3B
中文大學工程學院－科技顯六藝 2015	二等獎	王銘俊 2A、丁柏希 2A、李昊霖 1E
第十二屆 WRO-香港機械人挑戰賽[Hong Kong Robot Challenge]	優異獎	張書朗 4D、陳煜智 4C、鄧樂天 4C
第二屆羅氏少年科學家大獎	十五強	梁晉瑋 3B、吳晉豪 3B、郭泓德 3B
慈幼數學邀請賽	冠軍	陳建熙 3A、陳紀元 3A、張旭桐 3A 洪曉樺 3A、曾瑋霆 3A、王文康 3A
資優解難比賽 (奧林匹克教育協會及家庭學習協會主辦)	銅獎	羅逸成 2A
香港青少年創新科技大賽 -- 物理及工程組	優異獎	郭泓德 3B、許譯文 3B、譚皓堯 3B
香港青少年創新科技大賽 -- 能源及環境科學組	優異獎	林緯釗 3B、吳晉豪 3B、施鑒軒 3A
第四十八屆聯校科學展覽	最受歡迎 攤位	
教育局資優教育組網上學習課程 -古生物學	第一級別	潘祖廷 1A、洪曉樺 3A、岑敏達 3A
教育局資優教育組網上學習課程 - 天文學	第一級別	吳明橋 2B
教育局資優教育組網上學習課程 - 地球科學	第一級別	周智宏 1A、黃嘉浩 2B
教育局資優教育組網上學習課程 -數學	第一級別	聶俊邑 2B
教育局資優教育組網上學習課程 -古生物學	第一級別	潘祖廷 1A、洪曉樺 3A、岑敏達 3A

## Acknowledgement:

- Computer Club (robotic team)
- Gifted Education Team
- Science promotion team for junior forms
- JSSE Team
- Maths Panel
- Academic Affairs Committee





**For further information:**

You may contact Mr. Tse Sui Fai for further information at 2884 3581,  
or visit our school website: [www.ssshk.edu.hk](http://www.ssshk.edu.hk)