



未來科學大獎2023
FUTURE SCIENCE PRIZE



PLK LAWS FOUNDATION COLLEGE

保良局羅氏基金中學

www.plklfc.edu.hk

Prospectus



保良精神

PO LEUNG SPIRIT

相互尊重	Mutual Respect
團結合力	United Effort
延展愛心	Benevolence
行善助人	Charitable
感恩知德	Gratefulness and Recognition
造福社群的奉獻精神	Dedication to Serving the Community

願景 Vision

幼有所育，少有所學，壯有所為，老有所依，貧寡孤困殘病者皆有所望

Children are nurtured, Youngsters are educated, Adults are supported to contribute, Elderly are cared for, The less fortunate are lightened with hope.

使命 Mission

成為最傑出、最具承擔的慈善公益機構，發揮保良精神，以善心建善業，致力保赤安良，護老扶弱，助貧健診，培德育才，揚康樂眾，實踐環保，承傳文化，造福社群

To be the most prominent and committed charitable organisation.

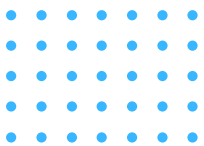
In the Kuk's Spirit to do good deeds with benevolence. Dedicated in protecting the young and the innocent, caring for the elderly and the underprivileged, aiding the poor and healing the sick, educating the young and nurturing their morality, providing recreation to the public, caring for the environment, passing on the cultural inheritance and bringing goodness to the community.

價值觀 Values

秉承傳統	與時並進	Fine traditions, Accommodate the current needs,
以人為本	關愛感恩	People-oriented, Care and appreciation,
優良管治	務實創新	Sound governance, Pragmatism and innovative,
廉潔奉公	安不忘危	Integrity, Vigilance,
善用資源	注重本益	Optimal use of resources, Cost-effectiveness,
專業團隊	愛心服務	Professional team, Service with heart

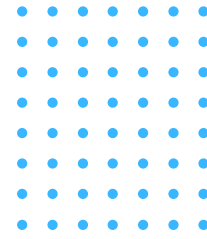


MISSION AND VISION



We strongly believe that

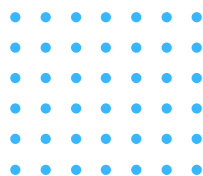
- the overall aims of education for the 21st Century should be enabling every student to attain all-round development and to be equipped with life-long learning capabilities;
- our priority should be enabling students to enjoy learning, enhancing their effectiveness in communication and developing their creativity and sense of commitment;
- all students are unique and their potential and multiple intelligence can be fully developed if ample opportunities are duly provided; and
- the development of our students' multiple intelligence helps to strengthen their confidence and to bring out their giftedness.



We commit ourselves to

creating a loving and harmonious learning environment which helps our students

- develop self-esteem and optimism;
- pursue knowledge and truths, accept multi-cultures and have a world vision;
- think creatively and coping with changes;
- undertake the responsibility to serve families, individuals and communities;
- better understand Chinese history and culture; and
- be concerned with the development of our country.



We strive to

create a professional environment to

- encourage professional collaboration and cultivate the culture of quality assurance;
- make good use of educational research to enhance teaching and learning, and also to promote our teachers' professional development; and
- facilitate an innovative curriculum development in response to the needs of students and social changes;

for developing an effective partnership network among our school, our students' families and the community towards the accomplishment of the vision of 'all-round development for students'.



LFC MEMORABLE MILESTONES



Naming of Lau Chan Siu Po Library of Po Leung Kuk Laws Foundation College

Our founding principal was appointed as an honorary fellow at Hong Kong Institute of Education

Grand Opening of Law Cheuk Ecology Laboratory

Our research topic "A Novel Gout Therapeutic Approach" won the Gold Medal Award at iGEM 2019

Dr Suen Ka Chun was appointed as our current principal

Participation in the International Geography Olympiad on behalf of Hong Kong



Grand Opening of DiagCor Biotechnology Laboratory



The Establishment of Stem Cell Science Laboratory funded by Quality Education Fund

2004

2006

2008

2009

2010

2013

2014

2016

2017

2019

2022

2023



The School Dedication Ceremony was officiated by Mr Anthony S.K. Wong, J.P. Commissioner for Information and Technology, HKSAR Government



First-time participation in the Annual Meeting of the Society for Neuroscience in 2006, followed by 2008, 2010, 2013, 2015, 2017 and 2019



Hong Kong Green School Award - Green Roof Project



Dr Suen Ka Chun, Ms Lin Mei Yu and Mr Li Man Ho were given the Chief Executive's Award for Teaching Excellence 2016/2017

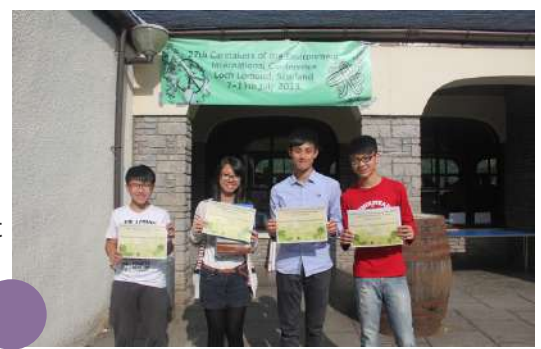


Grand Opening of Chu Lee Yuet Wah Academic Building



Grand Opening of Lam Shu Chit Science and Innovation Complex, So Siu Ling Complex and So Sau Lin Lecture Theatre cum Video Conference Centre

First-time Participation in Youth Conference of Caretakers of the Environment International in 2006, followed by 2009-2017 annually

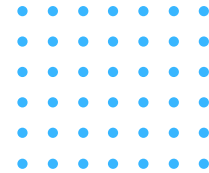


Meeting with the Chief Executive in the Government House to explain our space science project

Our school was honored to receive Po Leung Kuk Outstanding School Award in 2011, 2013, 2017, 2018 and 2020



CORE CURRICULUM



Our school has planned our courses in line with seven learning goals of secondary education and the five following essential learning experiences for whole-person development: Moral, Civic and National Education, Intellectual Development, Community Service, Physical, Aesthetic Development and Career-related Experience.

- In comparison with schools with similar Secondary one intake, our students performed impressively and remarkably in the past years and our performance far exceeded the expected level. Our school curriculum is centred around the latest developments in the Hong Kong Diploma of Secondary Education (HKDSE).
- The subjects offered for our Junior Secondary Curriculum include Chinese, English, Mathematics, Citizenship, Economics and Society (CES), Geography, Innovation and Entrepreneurship (I&E), Integrated Science (IS), Biotechnology, Chinese History, Computer and Information Technology (CIT), Technology and Living (T&L), Music, Visual Arts, Physical Education and Life Education.
- To nurture our students' creativity and entrepreneurship, Innovation and Entrepreneurship (I&E) has been introduced as a core school-based subject to our S3 students.
- A school-based subject, Biotechnology, has also been developed to facilitate our students to cope with new technologies that may arise in this constantly changing world.
- Life Education is offered to instill moral values in our students and aid their personal growth.



New Senior Secondary

- The subjects provided for our New Senior Secondary Curriculum include:

Core Subjects

- Chinese Language, English Language, Mathematics and Citizenship and Social Development (CSD).

Electives

- Biology, Chemistry, Physics, Chinese History, Geography, Economics, Business, Accounting and Financial Studies (BAFS), Information and Communication Technology (ICT), Music, Technology and Living (T&L) and Visual Arts (VA).



Whole-school Literacy Strategy

- Language permeates the whole curriculum both as a vehicle for learning and as a subject of study in its own right.
- English is used as the teaching medium for our formal curricula.
- Chinese Language and Chinese History are taught in Putonghua in junior forms.
- Life Education is taught in Cantonese.

Other Learning Experiences (OLEs)

- In order to ensure necessary exposure for a balanced whole-person development to meet the learning goals of Moral, Civic and National Education, Community Service, Career-related Experiences, Aesthetic Development and Physical Development, the cultural departments in our school provide fundamental courses as well as specialized courses to enrich our students' school lives.



Science Education

- Our school focuses on developing our students' ability to think critically and conduct investigations through inquiry and research-based learning. We encourage our students to ask questions, explore, and solve problems actively. This approach emphasizes their active participation and fosters curiosity and a spirit of inquiry.
- In science lessons, we encourage our students to generate their own questions and find answers through experiments, observations, and data analysis. This learning method helps students understand scientific principles and develops their logical thinking and problem-solving abilities.



- We encourage our students to undertake independent scientific research projects. By designing experiments, collecting data, and analyzing them, our students can gain a deeper understanding of the scientific research process and develop critical thinking and innovation skills.
- We lead our students to participate in different science and STEAM events. Through participating in competitions, our students can showcase their knowledge and skills, gain valuable hands-on experience, and enhance their analytical abilities.

Biotechnology Curriculum

- In addition to the regular science curriculum in secondary schools, a school-based Biotechnology curriculum has been developed for our junior form students since 2004, aiming to nurture our students' scientific literacy, creativity and curiosity.
- To support the practical lessons in Biotechnology, the DiagCor Biotechnology Laboratory, equipped with university-level instruments, was established. This laboratory not only facilitates learning during Biotechnology lessons, but also fosters scientifically gifted students to engage in advanced research-based investigations. We have had seven batches of students joining international conferences for scientists since 2006.

Neuroscience and Stem Cell Curriculum

- To further cultivate our students' interest in science, our school has recently incorporated Stem Cell elements into the Biotechnology curriculum for our junior form students. A dedicated Stem Cell Science Laboratory equipped with advanced instruments has also been established.
- An advanced Neuroscience and Stem Cell curriculum has also been established for scientifically gifted students.



Extracurricular Activities (ECAs)

Learning is not limited to the classroom. Our school provides a diverse range of extracurricular activities to ensure that students can apply what they have learned and achieve whole-person development. Students at our school can participate in the following:

- Subject-based activities (e.g. Aerospace Club, Math Elite Team, Debate Team, Drone Club, iGEM competition, etc.)
- Sports teams (e.g. Archery, Athletics, Badminton, Basketball, Hockey, Ice Hockey, Table Tennis, Soccer, Swimming, Volleyball, etc.)
- Aesthetic development (e.g. Artists, Choir, Chinese Ensemble, Dance Club, Orchestra, Ceramics Class, Photography Club, Digital Illustration Class, etc.)

THROUGH-TRAIN POLICY



- A through-train policy has been developed, thereby linking our school with our affiliated primary school, Po Leung Kuk Luk Hing Too Primary School.
- With a clearly defined through-train school policy – ***P12-ness***, which guides our school development planning and school-based curriculum development, our school aims to provide a coherent 12-year education, catering to the needs of students at different learning stages.
- There has been increasingly more collaboration between the two teams of staff in strengthening the articulation between our primary and secondary curricula. Ample joint-school functions including English Day Camp, Young Scientists' Conference, Budding Scientist Programme and Pre-S.1 Bridging Course are held to bring the two communities closer and foster our students' sense of belonging.





SCHOLARSHIPS AND AWARDS

- Our school has set up various scholarships to encourage our students to pursue and accomplish academic excellence. Our students are proven to be more motivated and so they would strive for outstanding results both academically and non-academically with the implementation of the scholarship system as a form of encouragement and recognition.

Academic Scholarships

According to students' annual academic performance, scholarships (through a reduction in school fees) are awarded as follows:

Position	1-3	4-6	7-10	11-25
Scholarship	100%	50%	25%	20%

HKDSE Scholarships

Students who fulfill the basic university entrance requirements (332A) are eligible for the following Public Examination Scholarships:

Achievement	5**	5*
Scholarship	HKD\$2000	HKD\$1000

Subject Scholarships

On top of academic scholarships, our students are also awarded with subject scholarships to recognise their talents and efforts in different subjects.

For Senior Secondary Subjects

Subjects	Position	Scholarship
Chinese	Top 3	HKD\$1000 Each
English		
Mathematics		
CSD		
Other Electives	Top 1	



Music Scholarships

Position	Scholarship	No. of Awardees
1st Place	HKD\$2000	2
2nd Place	HKD\$1500	2
3rd Place	HKD\$500	22
Merit	HKD\$300	10

Visual Arts Scholarships

Position	Scholarship	No. of Awardees
1st Place	HKD\$4000	1
2nd Place	HKD\$3000	1
3rd Place	HKD\$2000	1
4th -20th Places	HKD\$300	17

Sports Scholarships

Position	Scholarship	No. of Awardees
1st Place	HKD\$2000	1
2nd Place	HKD\$1500	1
3rd Place	HKD\$1000	1
4th -13th Places	HKD\$500	10
Best Team	HKD\$2000	3



International English Language Testing System (IELTS) Scholarships

Students obtaining at least a band score of 6.5 in all subpapers and the following overall band scores are eligible for the IELTS (Academic) scholarships:

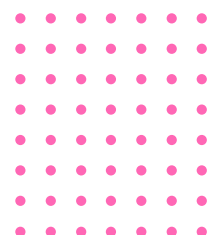
Achievement	Scholarship
IELTS 9.0	HKD \$4000
IELTS 8.5	HKD \$3000
IELTS 8.0	HKD \$2000
IELTS 7.5	HKD \$500
IELTS 7.0	HKD \$300

Putonghua Proficiency Test Scholarships

國家語委普通話水平測試

本校為提升學生的普通話水平，設立國家語委普通話水平測試獎學金。詳情如下：

考獲成績	獎學金
一級甲等	HKD \$3000
一級乙等	HKD \$2000
二級甲等	HKD \$1000
二級乙等	HKD \$500





A STRONG TIE BETWEEN HOME AND SCHOOL

The Parent-Teacher Association (PTA)

- Parent volunteers highly value home-school co-operation. Parents are well-informed of the progress of their children and the latest school development through various communication channels.
- Parent volunteers focus on parent education as it has always been an important area. Its purpose is to inspire parents to take care of their children's personal academic studies and growth in addition to their children's ordinary campus life. Meanwhile, we hold different types of parent lectures and workshops to make parent education more effective.
- Parent volunteers are engaged in various school activities, such as Swimming Gala, Athletics Meet and Chinese New Year Carnival in order to build up close communication and strong partnership among students, parents and our school.



Careers & Life Planning

- With a dedicated and experienced team, our school creates an excellent learning and teaching environment for our students to be well-equipped with lifelong learning capabilities.
- Our school is committed to inspiring our students with a sense of ownership about the future and valuing careers and life planning as important throughout different life stages. Having developed a habit of self-reflection, our students can review and adjust their goals and life plans from time to time, and become independent life planners.



- Our students are given ample opportunities to learn from various career-related experiences and immersions to support their whole-person development. Our students are encouraged to search for and explore a path which suits their individual aptitudes, abilities and interests so that every student can have the opportunity to succeed in life.



DISCIPLINE AND COUNSELLING

Award Schemes for All Students

Our school believes every student deserves to be recognized and all good behaviour should be awarded. Hence, our school has implemented different award schemes to uphold good manners and motivate our students to be role models for peers to learn from. We have set up:

- Graduate of the Year Award
- Best Conduct Award
- Best Improvement Award
- Achievement Award
- Good Behaviour Award

S1 Orientation Camp

Each year, our school holds the S1 Orientation Camp to help our S1 students better adapt to the new learning environment. We strive not only to provide S1 students with an energetic opening to their new school life, but also equip senior form students with skills in organizing activities and communicating with peers. A group comprising senior form students from different house committees, the student council and the school prefect team would lead the camp and instill good virtues in the new students.



Counselling

Our school values the social well-being of our students and is committed to creating a caring campus which helps inculcate positive values in our students.

In order to equip our students with the ability to administer self-care and build resilience, various workshops are offered to our students.

We have also established a peer counselling team to promote a loving, supportive and harmonious atmosphere at school. Students in the team organise different activities to help their peers cultivate positive values and a supportive culture, such as:

- Pass A Kind Word
- Lunchtime Fun
- Soul Cafe
- Tea Arts





Our school values a wide range of talents. In order to provide our students with a variety of opportunities to cultivate their gifts, our school has worked with a multitude of organizations.

GIFTED EDUCATION

Participation in pre-university programmes

To offer our students a taste of what tertiary education is like, our school has joined many programmes organized by different universities.

- CUHK Mental Health Ambassador Programme
- EdUHK Environmental DNA (eDNA) Workshop
- Harvard Book Prize
- HKU Academy for the Talented
- HKU Faculty of Education (Collaboration to co-design and co-develop inquiry-based learning materials)
- HKU Laboratory of Neurodegenerative Diseases (Research collaboration)
- PolyU Junior Researcher Mentoring Programme



Participation in community programmes

To allow our students to have a closer connection with our society, our school has joined a wide range of activities held by various external organizations.

- The Boys' and Girls' Association of Hong Kong - HSBC Young Financial Planners Programme
- Gifted Education School Network - STEAM education
- The Hong Kong Academy for Gifted Education (HKAGE) - Budding Poets Award (English), International Junior Science Olympiad & International Biology Olympiad
- Hong Kong Biotechnology Organization - Poster presentation at Hong Kong International Biotechnology Convention
- The Hong Kong Federation of Youth Groups (HKFYG) - "Hong Kong 200" Leadership Project
- The Hong Kong Mathematical Olympiad Association (HKMO) - Huaxia Cup and Asia International Mathematical Olympiad Open Contest
- Hong Kong New Generation Cultural Association - Hong Kong Youth Science and Technology Innovation Competition
- The Law Society of Hong Kong - Teen Talk
- Sai Kung District Council - Sai Kung District Outstanding Students Election
- The Standing Committee on Language Education and Research (SCOLAR) - English Alliance
- United Nations Children's Fund (UNICEF) - UNICEF Young Envoys Programme



GLOBAL PERSPECTIVE

International Genetically Engineered Machine (iGEM) Competition

Our school encourages students to join various international events. iGEM is a worldwide competition about Synthetic Biology in which participants apply engineering principles to biological systems and make good use of biotechnologies to tackle global challenges, including health and medical problems as well as environmental pollution. With the support of the advanced facilities in our DiagCor Biotechnology Laboratory and Stem Cell Science Laboratory, our students have worked as young scientists to develop new synthetic biology systems for disease treatment and diagnosis in recent years.

2018: Development of a self-assembled DNA tweezer nanomachine to diagnose spinocerebellar ataxia, awarded a Bronze Medal.

2019: Formulation of a new synthetic enzyme to solve the health risks associated with high levels of uric acid in the body, awarded a Gold Medal.

Various teams of our young scientists are engaged in different research topics in the iGEM competition. In 2023, our students developed a quick test for detecting prostate cancer and would present this new idea in the iGEM competition held in Paris.



Exchange Programmes

Our school advocates forming partnerships with the Mainland and overseas sister-schools and thus opening doors for our students to a global classroom through cultural exchange and heritage exploration. Exchange tours are organized every year to widen our students' global perspectives.

International exchange programmes propel our students towards accepting and understanding cultural diversity. They also give our students an opportunity to polish their language proficiency and expand their social circles. Our students' abilities to acquire new knowledge are enhanced when they are exposed to meaningful problem-solving activities in the global classroom.

International Conferences

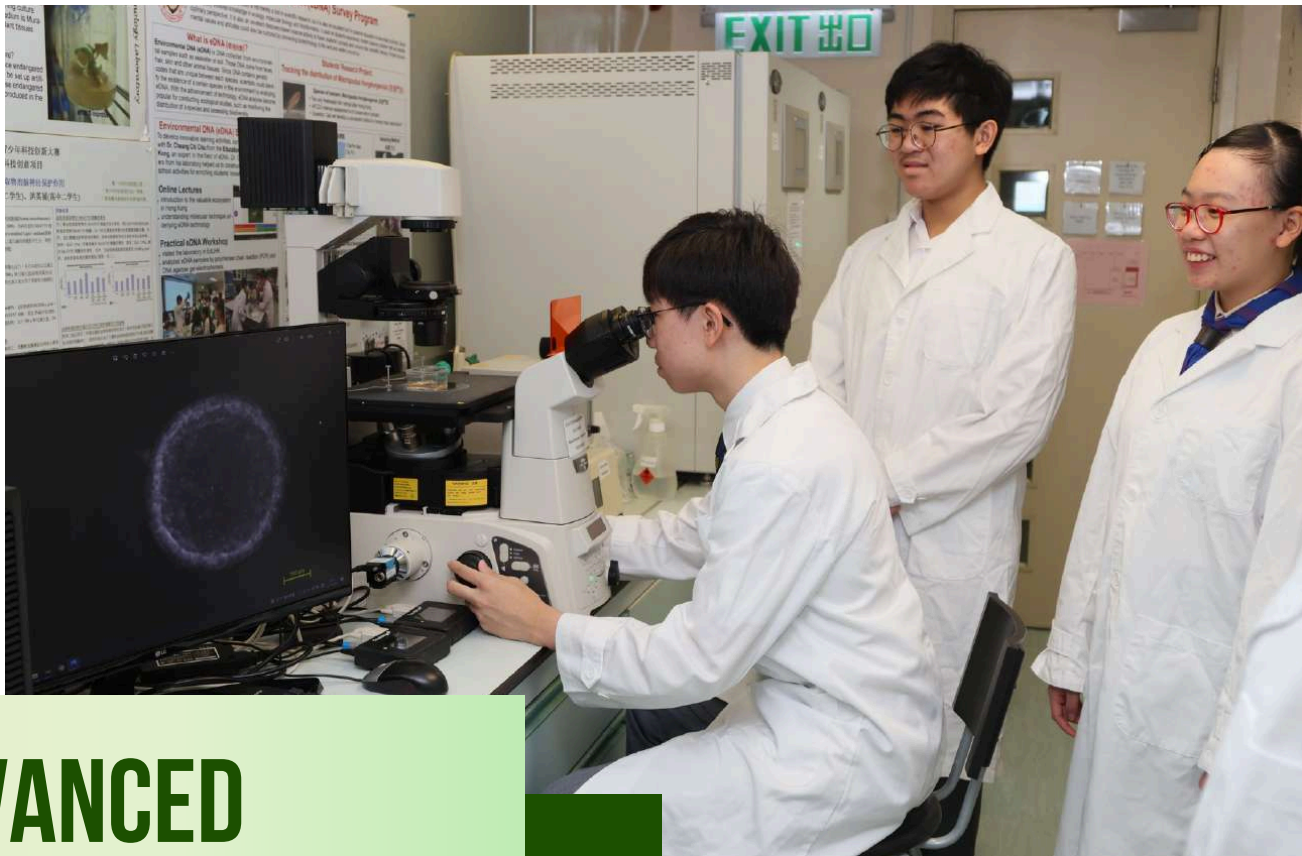
Our students are provided with opportunities to meet and engage with leading researchers and professionals, thus allowing students to stay in touch with the latest developments in science and technology.

Our students have participated in the following conferences and events:

- Annual Meeting of Society for Neuroscience;
- Youth Conference of Caretakers of the Environment International;
- Annual Assembly of Youth Singapore;
- International Geography Olympiad; and
- Video conferences with overseas schools and global organizations, such as NASA.

Scholarships for International Conferences or Competitions

Location	Scholarship
Local	HKD\$2000
Countries in Asia	HKD\$4000
Countries outside Asia	HKD\$6000



ADVANCED FACILITIES

- We have a millennium school campus. All classrooms, laboratories and special rooms are connected wirelessly to the Internet and equipped with computers, portable devices, projectors, visualizers, screen mirroring devices and cloud servers to facilitate teaching and learning with the latest technology.
- To promote e-learning and STEAM education, new facilities such as 3D printers and VR technologies are provided to arouse our students' interest in learning and engage them with more hands-on investigations.
- In Lam Shu Chit Science and Innovation Complex, DiagCor Biotechnology Laboratory, Stem Cell Science Laboratory, Law Cheuk Ecology Laboratory, Integrated Science Laboratory, Physics Laboratory, Chemistry Laboratory, Biology Laboratory, Fashion and Textile Room, Innovative Cookery Room and Lau Chan Siu Po Library offer a better learning environment for experiments, practical lessons and self-regulated learning.
- Large-scale lectures and video conferences can be held at So Sau Lin Lecture Theatre cum Video Conference Centre.



Chu Lee Yuet Wah Academic Building

- The New Annex opened in 2018. It was designed to provide a range of new facilities and the building program was distributed across 5 storeys: the swimming pool hall is a double-volume space located on G/F and 1/F; classrooms and staff facilities are on 2/F and 3/F; a fitness centre and a multi-purpose studio are on 4/F; and a rooftop basketball court is on 5/F.

Swimming Pool Hall

- The design of the swimming pool hall evolved from the concept of translating the fluidity of water into aesthetic expressions. The movement of water was translated into curvatures which were then incorporated into the curved ceiling design. The pool can enhance the curriculum development of Physical Education and inquiry-based learning across subjects.



DIVERSE OPPORTUNITIES

Fitness Centre

- From the latest models of treadmills to the best resistance-training machines, students are exposed to a new world of Physical Education, so that a habit of healthy living and fitness training can be instilled in our students.

Aerospace Laboratory

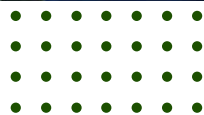
- Our school offers a one-of-a-kind career-based aviation programme to equip students with the basic knowledge of being a pilot and scientific principles related to flying in our laboratory and exchange programmes.

Cantilevered Basketball Court

- There is a basketball court on the rooftop of the new annex and it is cantilevered beyond the floors for a more generously spaced sports ground. Because of its elevated height, the view is also broadened, creating a sense of openness.

Multi-purpose Studio

- The multi-purpose studio supports the curriculum development of Music and Information and Communication Technology. More opportunities will be offered to our students to pursue excellence in music. From our string orchestra to our brass band and orchestra, students are exposed to diversified music learning experiences. In addition, the studio provides a platform for our students to work together where STEAM education can be facilitated.



House System

- Our school is divided into four Houses: Red, Yellow, Blue and Green to promote positive attitudes, fair play and sportsmanship.
- Our students can represent their houses to compete in interhouse competitions and develop a sense of team spirit and belonging.
- It is also a platform to expand our students' social circles and foster friendships.
- Our teachers are also allocated to different houses and they act as mentors to facilitate our students' whole-person development.

Class Structure

- A symmetrical class structure from S1 to S6 is adopted. There are 5 classes in each form, amounting to 30 classes in total.



Maximisation of elective combinations

- In order to maximise the number of elective combinations, our school adopts a block-timetabling system so that our senior form students can take elective subjects from different streams.
- Our students can make balanced elective choices based on their abilities, interests as well as university prerequisites, thereby unleashing our students' full potential.



PLK LAWS FOUNDATION COLLEGE

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