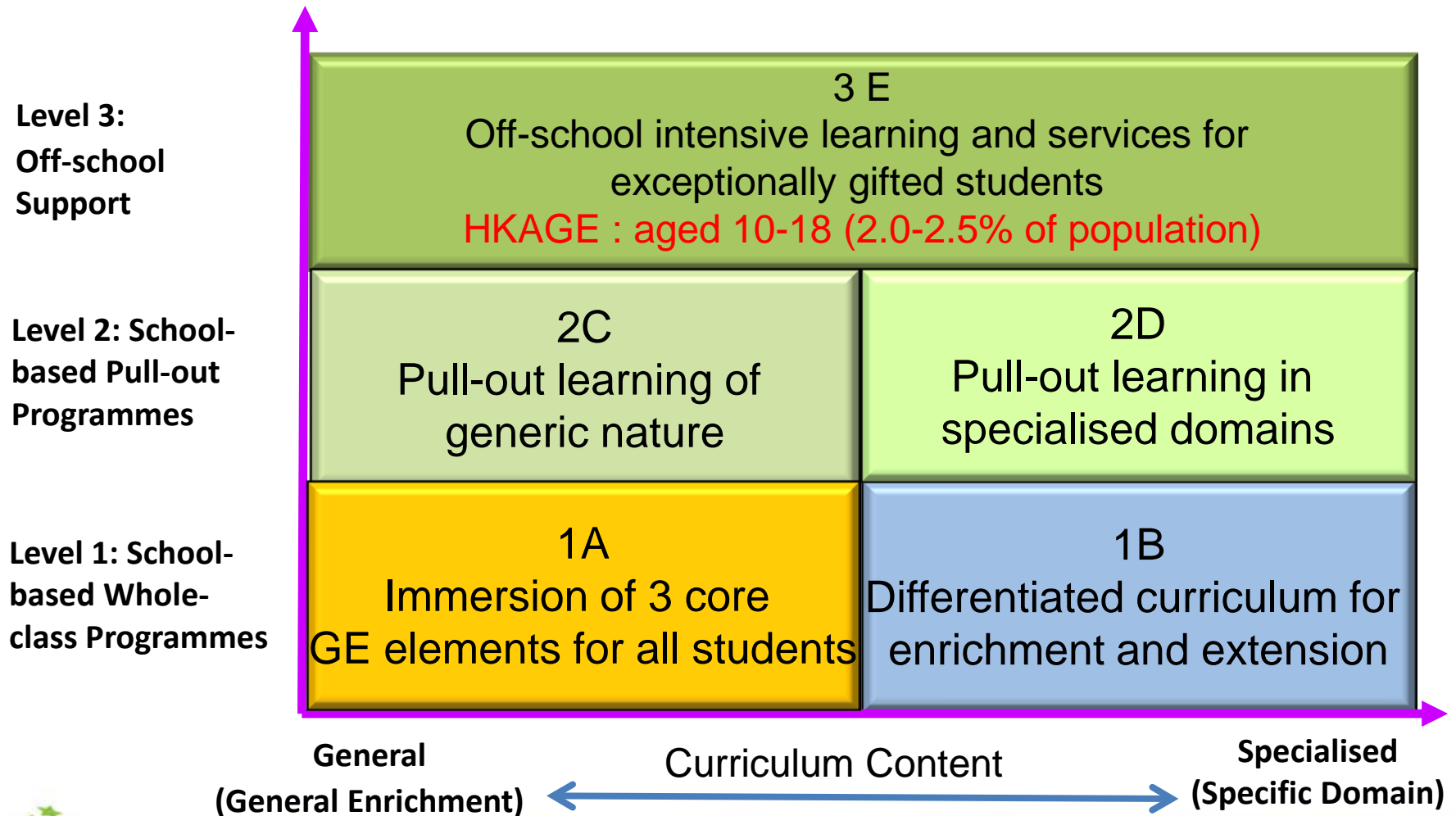香　港　資　優　教　育　學　苑
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Introduction to HKAGE
(Presentation to HKSAR LegCo Members)

Prof. T.K. Ng (Executive Director)

26/6/2018

The Three-tier Implementation Model for Gifted Education

Level 3: Off-school Support

3 E
Off-school intensive learning and services for exceptionally gifted students
HKAGE : aged 10-18 (2.0-2.5% of population)

Level 2: School-based Pull-out Programmes

2C
Pull-out learning of generic nature

2D
Pull-out learning in specialised domains

Level 1: School-based Whole-class Programmes

1A
Immersion of 3 core GE elements for all students

1B
Differentiated curriculum for enrichment and extension

General
(General Enrichment)

Curriculum Content

Specialised
(Specific Domain)

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What Kind of Students Are We Looking For?

- *Selection Criteria*
  - students with i) above average academic results, ii) commitment to an area of interest and, iii) high creativity ([Renzulli criteria](#))
  - Our programmes are for gifted students who are not satisfied with regular school work.

- *Selection Mechanism*
  - School recommendation + online programme + student profile or
  - Self-recommendation + online programme + student profile

- *Examples of Student Profile We Consider*
  - "Non-school" programmes students have actively participated
  - Students' creative work
  - IQ test

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Student Profile of HKAGE
~10,000 Current Student Members

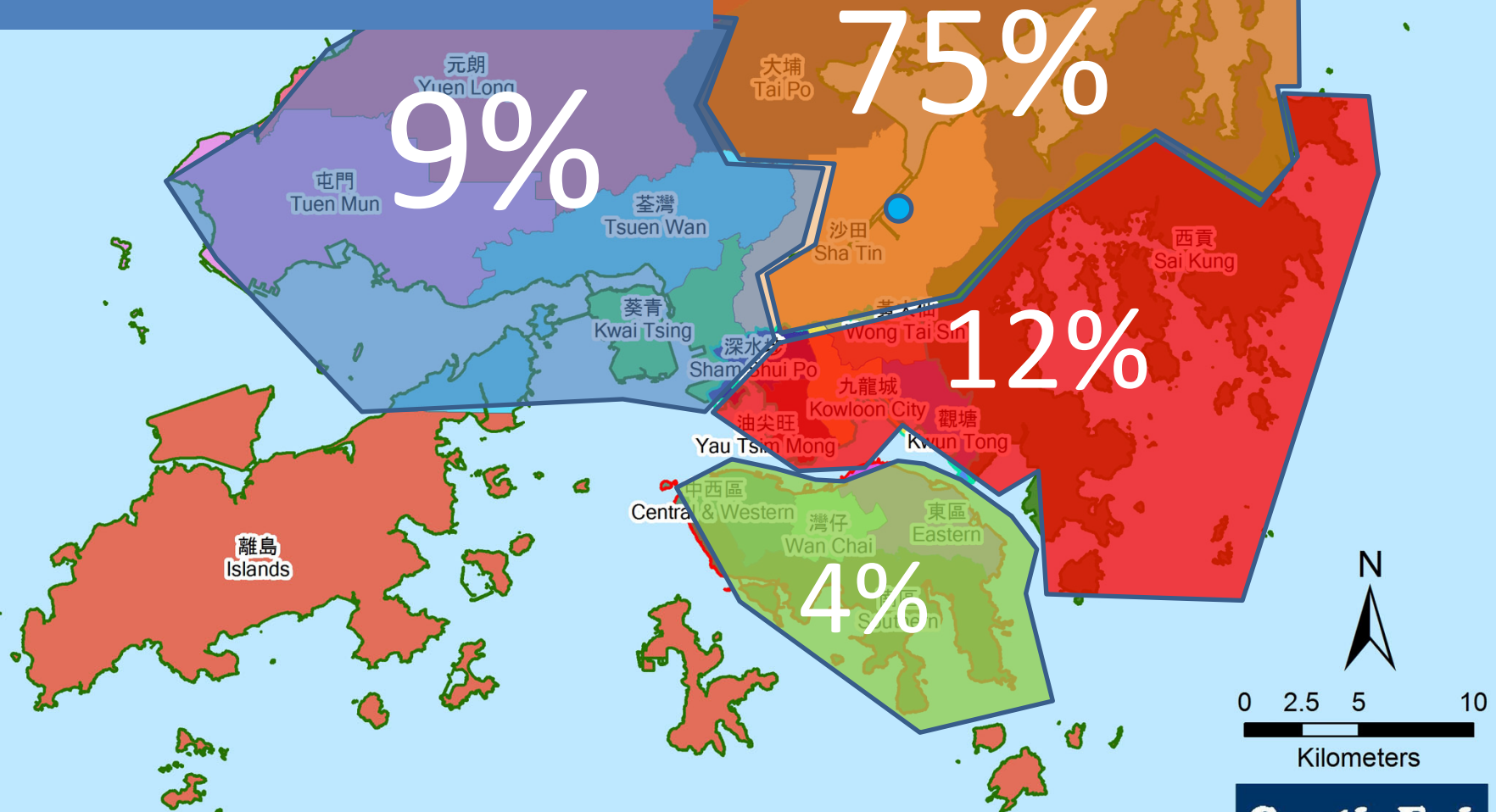➢ Student Profile by Region (based on the regions of schools attended)

School District	Percentage
HK - CENTRAL & WESTERN	5%
HK - HONG KONG EAST	7%
HK - ISLANDS	1%
HK - SOUTHERN	3%
HK - WANCHAI	5%
KL - KOWLOON CITY	12%
KL - KWUN TONG	7%
KL - SAI KUNG	5%
KL - SHAMSHUIPO	6%
KL - WONG TAI SIN	5%
KL - YAU TSIM MONG	5%
NTE - NORTH	4%
NTE - SHATIN	9%
NTE - TAI PO	4%
NTW - KWAI CHUNG & TSING YI	5%
NTW - TSUEN WAN	4%
NTW - TUEN MUN	6%
NTW - YUEN LONG	7%

➢ Student Profile by Class Level

Primary School Students (~P.4-P.6)	27%
Secondary School Students (S.1- S.3)	37%
Secondary School Students (S.4-S.6)	36%

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Distribution of Programmes in Different Districts (2018/19)

北區 North

大埔 Tai Po

元朗 Yuen Long

屯門 Tuen Mun

荃灣 Tsuen Wan

沙田 Sha Tin

西貢 Sai Kung

葵青 Kwai Tsing

深水埗 Sham Shui Po

黃大仙 Wong Tai Sin

九龍城 Kowloon City

觀塘 Kwun Tong

油尖旺 Yau Tsim Mong

離島 Islands

中西區 Central & Western

灣仔 Wan Chai

東區 Eastern

南區 Southern

75%

9%

12%

4%

N

0   2.5   5   10

Kilometers

SpatioEpi

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HKAGE Organisation Chart

```
                          Executive Director

    Academic          Affective        Advanced          Research        Corporate
    Programme         Education         Learning          Division        Services
    Development       Division (AED)    Experiences       (RD)            Division (CSD)
    Division (APD)                      Division (ALED)

    15 Staff          10 Staff         4 Staff           4 Staff         16 Staff
    Members           Members          Members           Members         Members
    Enrichment        Affective         Advanced          Evaluation      Admin Support
    (Academic)        Learning         Programmes        & Research
    Programme         Programme

                      Student Service Team
                      4 staff members
```

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Types of Student Programmes at HKAGE (2018/19)

- 108 programmes offered by APDD aiming to widen students' horizon + 30 training programmes for International Competitions
- 24 Affective Education programmes offered by AED
- 24 Advanced Level Experiences programmes offered by ALED
- Programmes offered by other institutions (see p.9)
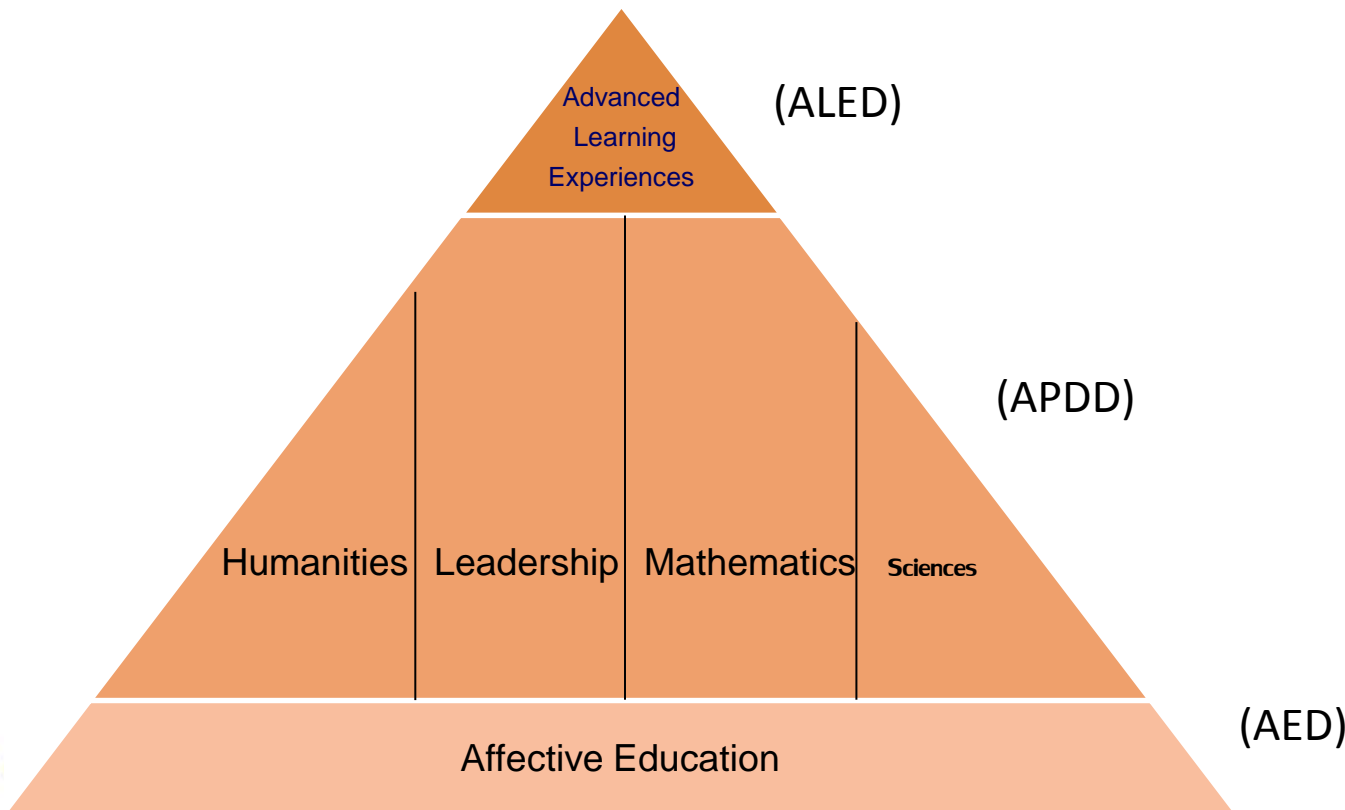
Programme Design and Effectiveness

- Programme design by our professional staffs in collaboration with university faculties, school teachers, NGOs, private sector, etc. + Input from students (and parents) gathered and analysed by Research Division
- Effectiveness of programmes monitored by Research Division with input from other divisions
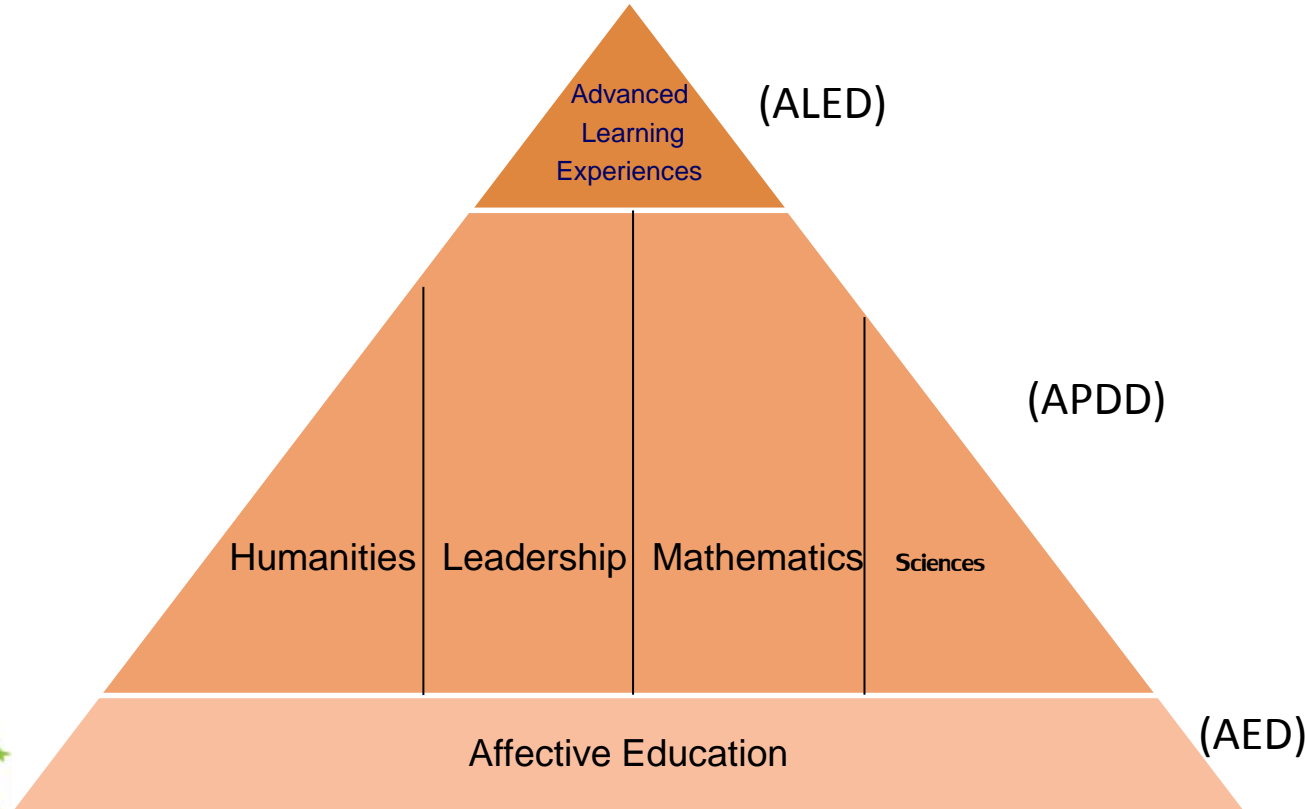
Programme charge

- All HKAGE student programmes are free of charge
- We subsidize our student members to take programmes offered by selected institutions, including international programmes, some programmes offered by UGC funded institutions and some MOOC on-line programmes. Typically the subsidy is 50% of the programme charge.
- *Participants in some of our parent programmes and also in our affective assessments are being charged.*
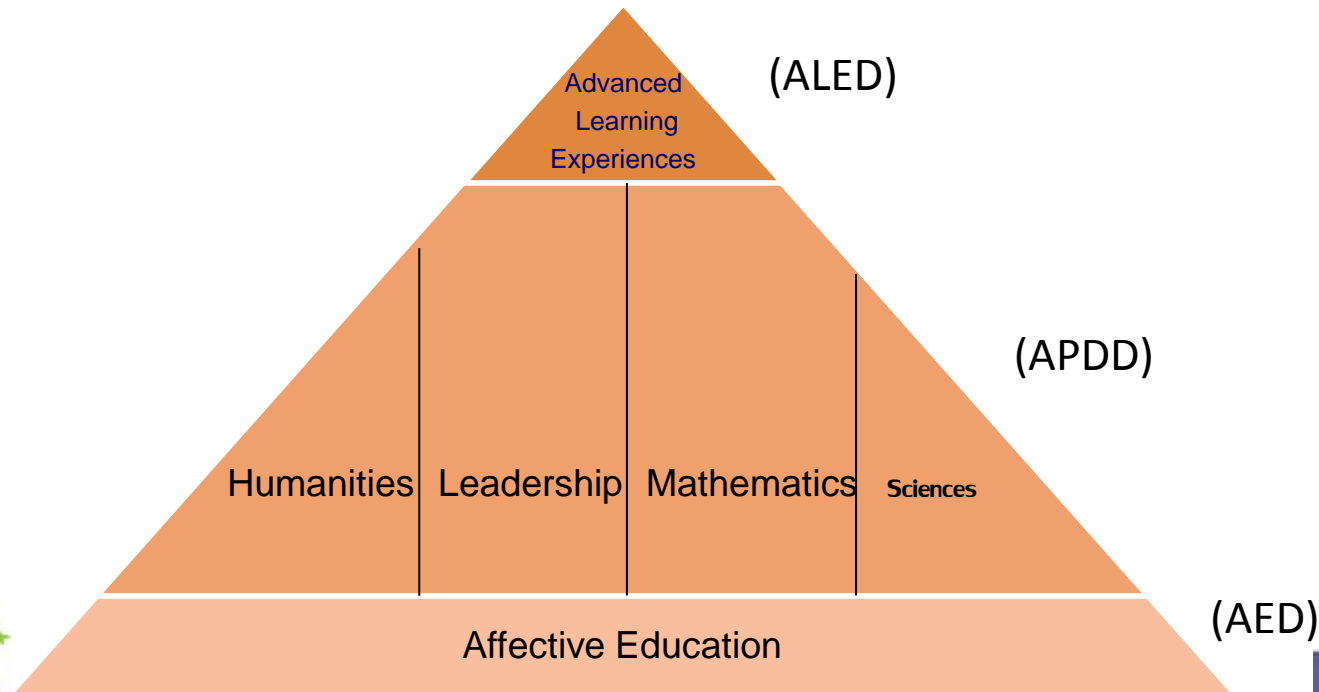
Examples of AE Programmes
"1+1" Parent Child Group (Primary School Students)

學生姓名：

我們的故事

片段寫作：記生活上的一個片段，嘗試用 5W1H 去記下。

故事主題：一個<u>感恩、充滿期</u>(情緒字眼)的片段 (自己的感受)
爸爸媽媽
故事中其他人物的感受 <u>為女兒感到驕傲</u> (情緒字眼)

目的：透過 5W1H 的方法，有系統地整理生活片段。從而增強親子溝通，增加雙方的了解。並且訓練自我表達和演說的技巧。而透過聆聽其他人的分享，則可以欣賞別人。

如何 how：
故事結果如何
成功轉校

何時 when：
故事發生的時間
剛小過去的暑假
(升五年級)

為何 why：
故事發生的原因
因為我關心我升中的問題，使上網搜索不同學校的資料

故事內容

何地 where：
故事發生的地點
家裏

何事 what：
那兩題發生了什麼事
我係爸爸媽媽替我申請做又插班生。

何人 who：
故事中的主角，出現的人物
我、媽媽、爸爸

"1 + 1" Group – the Twenty Statements Test

Name:

Time allowed: 12 minutes

There are twenty numbered blanks on the page below. Please write twenty answers to the simple question, "I .... " in the blanks. Just give twenty different answers to this question. Answer as if you were giving the answers to yourself, not to anyone else. Write the answers in the order that they occur to you. Don't worry about logic or "importance". Go along fairly fast, for time is limited.

1. I love my family
2. I am Abbie
3. I am a girl
4. I live in H.K, N.T
5. I love playing LeGo & drawing
6. I hope I can have good relationship with my friends
7. I like eating ice-cream & Soba
8. I am Studying in St. Paul's Convent School, Primary Section
9. I play the piano once a week teach by my tutor
10. I am allergy to many kinds of food
11. I have a disease called ezema
12. I live in a big family, Mum, Dad, Grandpa, Grandma, Uncle, Aunt,
13. I am sure that I will have my own business when I grow up.
14. I want to have great health during my life
15. I like to be the controller at home
16. I hate people smoking in front of me, it is very smelly
17. I hope I can be more considerate about others' feelings
18. I can finish a bottle of water in 10 seconds
19. I love going to play on the cruise very much
20. I know about the wonderful things in my secondary school

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Examples of AE Programmes
Affection To Vision (ATV) Scheme (Primary School Students)

Preventive, developmental group counselling for primary student members exhibiting underachievement

教學生涯漫長，總會遇上幾個...

...的學生
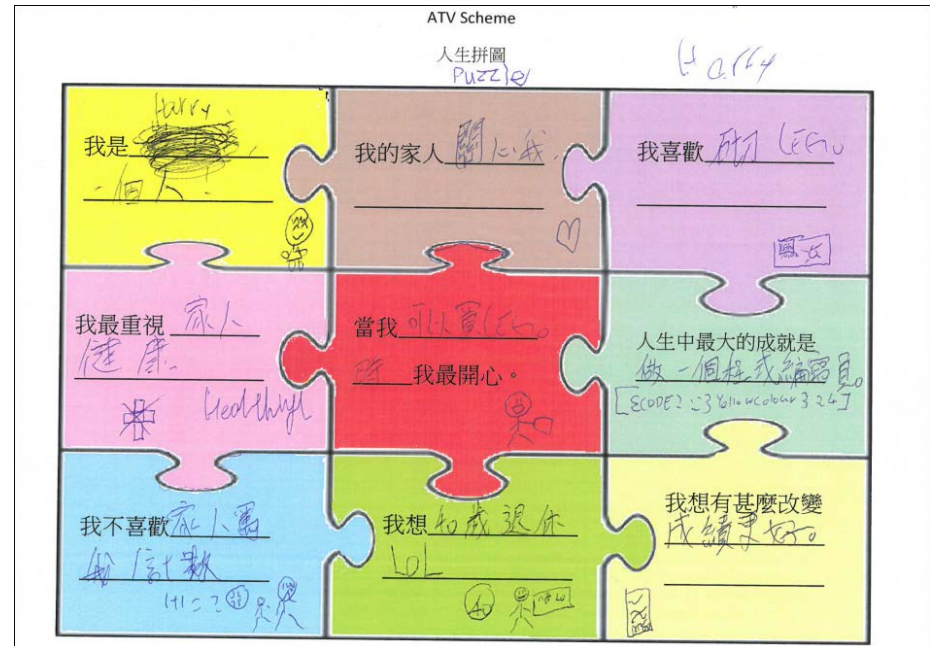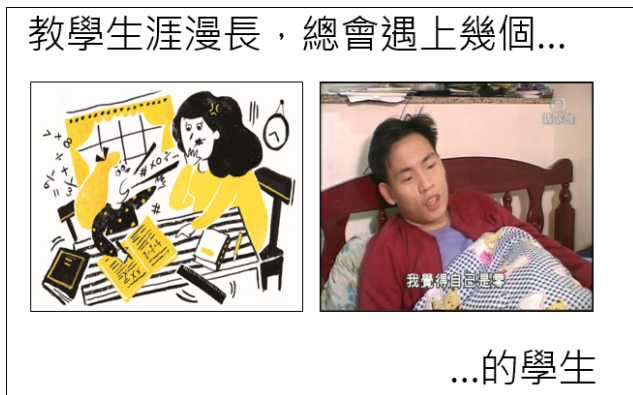
Programme Objective：1. Discover inner strengths, 2. Find meaning and reframe problems into challenges and 3. Connect with other gifted peers to improve social skills.

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Affective Support Offered by ALED

"The Voice of Gifted Learners"; "How a Gifted Mind Starts"; "Peer Support Group"
(June 2017)   (2016)   (2017)

These are examples of student-initiated and organized programmes serving as stepping stones for students to understand themselves and voice their real need. These authentic opportunities enable students to work together on real life problems, communicate and collaborate with peers, overcome frustration when they are facing challenges.

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STEM

An Inspection of Airplane Design
飛機設計大檢閱 (Dec. 2017)

21st Century Microcontroller Technology
- Solar Tracking Platform for Maximum
Energy Collection
21世紀微控制器科技 - 太陽能追蹤平台
收集最大能量 (Apr. 2018)

Big Data - Revolution and Reality
大數據 – 現實與改革 (Dec. 2017)

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Languages and Humanities
語文及人文學科

Future Curator Training 2018
未來館長培訓班 (Aug. 2017)

Humanistic - Leadership Project
「人文領導」計劃
(a series of courses and talks)
(一系列課程及講座) (Apr-Aug. 2018)

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Overseas Activities

Study Tours 海外學習團
Math Safari in Singapore, Raffles Institution, Singapore 新加坡數學遊踪 - 新加坡萊佛士書院 (Apr 2017)
Wu Chien-Shiung Science Camp 吳健雄科學營 (Aug 2017)
Asia-Pacific Forum for Science Talented 亞太科學資優學生論壇 (July 2017)
Asian Science Camp 亞洲科學營(Aug 2017)
Physics Study Tour to CERN (Switzerland) & Virgo (Italy) (July 2018)

Service Learning Project – Gifted Angels
服務學習計劃－資優天使

(Jan – Aug. 2018)

老伴同行
A Walk to 'Remember'

香港的平均預期壽命為 83 歲，因此 65 歲以上的長者和退休人士現在都成了香港主要的閒散社群。由於大多數退休的長者並非自願退休，不能為進社會的人之勞動市場所以當他們呆在家裡的同時，亦渴望有機會與社區連繫。

新的摩天大樓、填海、社區重建……隨着日子漸漸發展，昔日很多回憶着古老的建築物正找消失了，然而，香港的歷史不僅存在於教科書裡、它更住在一眾長者的心中，因為當歷史發生時，他們不但親身經歷過，更在其中扮演了第一、第二的角色。

通過設立導賞團，讓長者帶着下一代走過一條條隱着時代變遷而改變的街道，我們不僅能夠為長者提供一個平台，讓他們能分享自己寶貴的生活經歷和故事，更能幫助長者重新與社會聯繫。

加入我們，一起鼓勵長者說出他們的故事！

「新與舊的灣仔」
歷史文化導賞團

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# Training and Selection of HK Team for International Competitions

International Competition Result 國際比賽結果 (2011-2018)

International Junior Science Olympiad (IJSO) 初中科學奧林匹克 (11 Gold, 16 Silver)

International Mathematical Olympiad (IMO) 國際數學奧林匹克 (6 Gold, 14 Silver)

International Physics Olympiad (IPhO) 國際物理奧林匹克 (11 Gold, 25 Silver)

International Olympiad of Metropolise (IOM) (2 Gold, 6 Silver) 2017

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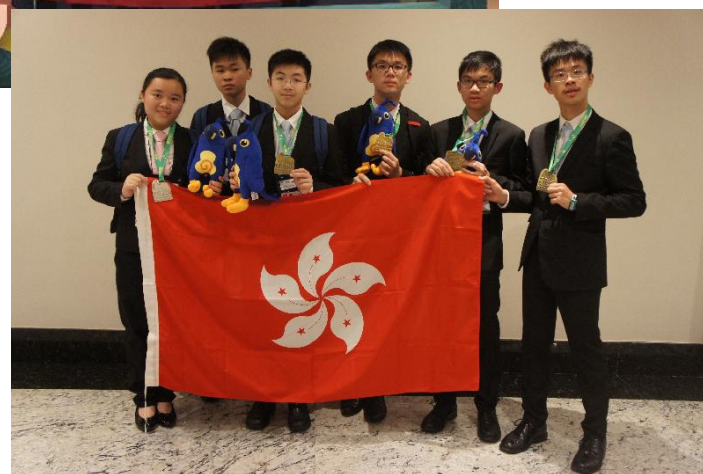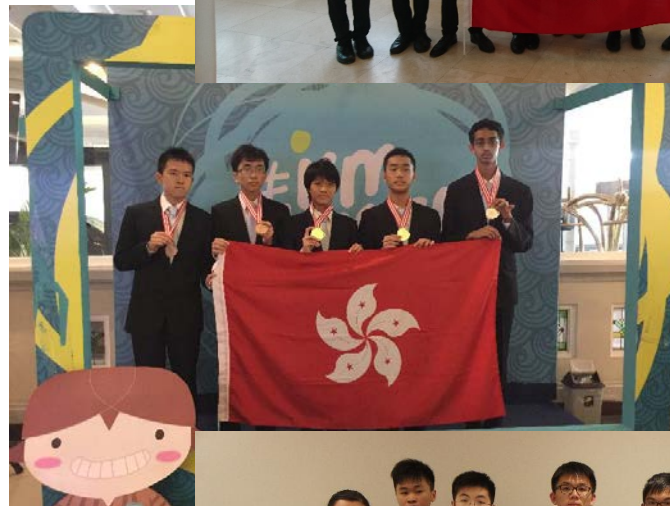
Way Forward - Talent Development (TD)

- *a 2 Yr. Pilot Scheme submitted to EDB to start in Sept. 2018*
  - *Talent Development*
    - *In-depth and systematic Programmes that provide direct impact on developments of gifted students to become "Talents".*

Gagne Model

HKAGE has concentrated on building Enrichment (Academic) Programmes for gifted students in the past, which is just one part of a holistic TD Scheme.
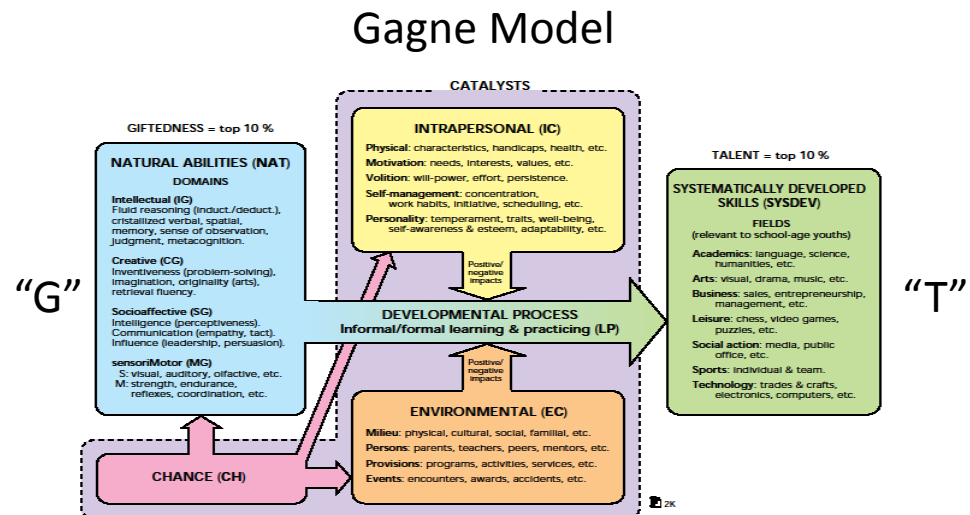
Gagné's Differentiated Model of Giftedness and Talent (DMGT.EN.2K)

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TD Pilot Scheme

- *Model/Plan*
  - *Modelled after the TD Scheme in Israel*

- Why Israel?
  - Systematic and demanding programmes without damaging the curiosity and creativity of students
  - Similar in population size and education system as HK

- Regular Schools + pull-out programmes

- National Effort – Collaboration between MoE + Universities (*6 out of 8 universities*) + Private Sector *in Israel support these programmes*

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TD Pilot Scheme

- Highlights: The HKAGE TD Pilot Scheme targets at around ~200 students with the following proposed elements:

  – *2-3 year mentorship/research programme for students from S3 –S5 [offered by universities & private sector]*

  – *Systematic university level academic programmes [students can have, say 20-30 university credits when graduating from high school]*

  – *Programmes in Humanities (humanistic aspect of STEM)*

  – *Education Counsellor for all students participating in these programmes*

  – *Alumni-supported programmes*

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A Mentorship Programme
Hong Kong Gifted Apprentice Program (HKGAP) – Pilot Scheme

A carefully organized mentorship programme where both students and mentors are selected and matched carefully with our ALED Head being the facilitator among students, mentors and parents. The scheme started at Nov 2017 with 14 pairs of masters and student apprentices. Excellent feedback from apprentices, masters and parents has been received so far.

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Collaborations

1) With Local Universities

– *City University of Hong Kong*

  • *Short course(s) in 5 different disciplines (mathematics, English, engineering, finance and creative media) are offered with plausible follow up by mentorship opportunities starting from February 2018*

– *Chinese University of Hong Kong*

  • *A visit led by CUHK faculty and students to research facilities in Europe, including CERN and VIRGO (European center for G-wave) in July 2018*

– *The Hong Kong University of Science and Technology*

  • *Big History and Collective Learning – a 6-Day Summer Day Camp on "Sustainability" and "Artificial Intelligence" in July 2018*

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Collaborations

2) With private sector (Just Started!)

DJI (Da Jiang Innovations), in collaboration with Science Park and HKUST

- *We collaborate with the above 3 parties to offer intensive robotic training activities to HKAGE students starting from Spring 2018 (Robo-masters +....).*

Others

- *We collaborate with many friends from private sector to offer talks on specific areas to our students, e.g. fintech.*
- *We invite established professionals in different areas to be mentors of HKGAP.*
- *We are going to explore other opportunities with Innovation & Technology Enterprises in the Mainland, e.g. Tencent.*

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Thank You!

Q & A

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