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The Education University of Hong Kong

特殊學習需要與融合教育中心
Centre for Special Educational Needs and Inclusive Education

Radboud University
Nijmegen, the Netherlands

Supporting Underprivileged Students with Underachievement by School-based Enrichment Programme

以校本增潤課程支援低收入才華未展的資優生

Funding Organizations:

樂施會 OXFAM Hong Kong

中原慈善基金 CENTALINE CHARITY FUND

(Phase II 2022-2023)

IMPACT INCUBATOR IDEAS FOR GOOD

SIE +FUND 社創基金

Supporting Organizations:

啟賢教育協會 Inspire Education Association

Background

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Underrepresented Talent

As know as invisible **talent, usually refers to the underprivileged, ethic minority or second language (English) learning students with high ability** (Peter & Engerrand, 2016)

Underachievement

Underachievement is described as a discrepancy between expected performance and actual performance (Siegle & McCoach, 2018)

Project Aims

1. To provide **suitable education for the children** to develop their talents in school
2. To provide an opportunity for **teachers to gain insights** of their students' talents and **receive guidance** on their talent developments
3. To assist Hong Kong schools to map the stronger and weaker capacities of the underprivileged students by **providing training** to them in the **basic knowledge of education** for high ability students
4. To develop a **local community of talent development** experts in long run
5. To **change the perspective** the general public in **gifted education**

Project Logic Model

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30 TEACHERS

- 10 Seed teachers
- RITHA Training (Block 1)
- Seed teacher learning community
- 10 Partner teachers
- 10 Network teachers
- 10 Teacher Workshop

10 SCHOOLS

School-based enrichment program develop by seed teachers
1on1 consultation by experts

132 STUDENTS

- Underprivileged high ability students with underachievement
- 4-6 weeks enrichment program
- Invited by seed teachers
- Evaluated by CSENIE

Promotion Video

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Project Activities

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RITHA Specialist Training (Block 1)

Seed teachers learning community

School-based enrichment program development

Individual consultation on designing the enrichment program

3 Teacher workshops

After the development, seed teachers conduct the enrichment program at schools with the help of partner teachers to support **136** students.

Figure 2 & 3: Photo of project activities

RITHA Training (Block 1)

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- From June 2021 to September 2021

- RITHA Training Block 1: **Foundations of Gifted Education**
- Provide **professional training** for seed teachers
- **Scientifically based framework** of gifted education
- Critically review new information for purposes of shaping and building teachers **own personal views and practices.**

RITHA Specialist Training (Block 1) Outcome

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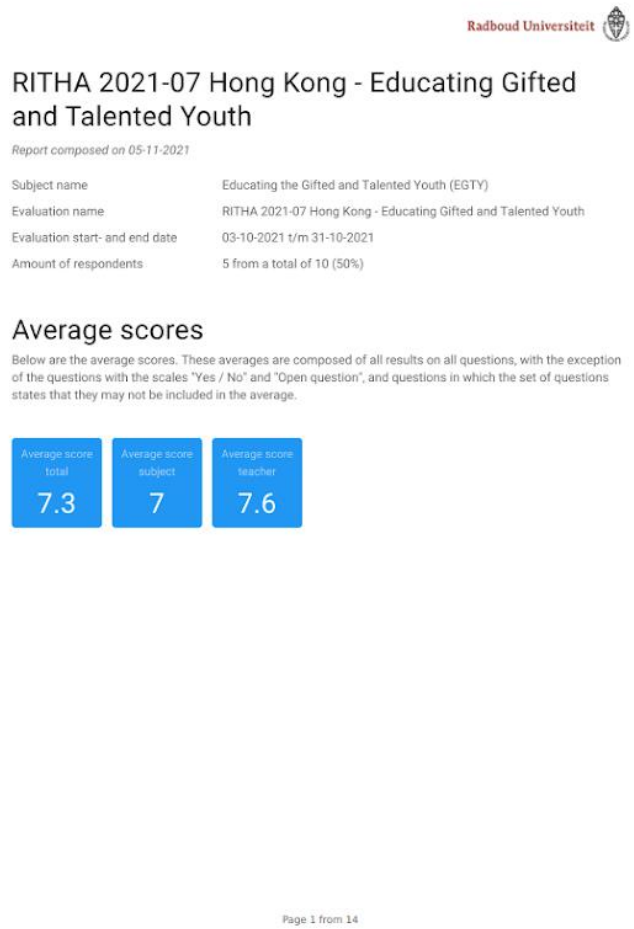
100% Passing Rate

- **Comments from seed teachers to RITHA Training**

"First of all, I would like to say thank you to all our lecturers and administration. There's a lot of resources and they really like the discussions. Level of the topics is appropriate. Balance between theory and practice. They match the learning goals. The seminar is a way for them to express their ideas. They love the lecturers and the feedback they receive. They like the flexibility and the solutions the lecturers are suggesting regarding the work schedule."

Questions	Average score (out of 5)
During the online course, I was able to further develop the required competencies	3.8
The content ties with the learning objectives for the online course	4
I put into practice what I have learnt	3.6


Radboud Universiteit

RITHA 2021-07 Hong Kong - Educating Gifted and Talented Youth

Report composed on 05-11-2021

Subject name	Educating the Gifted and Talented Youth (EGTY)
Evaluation name	RITHA 2021-07 Hong Kong - Educating Gifted and Talented Youth
Evaluation start- and end date	03-10-2021 t/m 31-10-2021
Amount of respondents	5 from a total of 10 (50%)

Average scores

Below are the average scores. These averages are composed of all results on all questions, with the exception of the questions with the scales "Yes / No" and "Open question", and questions in which the set of questions states that they may not be included in the average.

Average score total	Average score subject	Average score teacher
7.3	7	7.6

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Figure 3: Overview of the RITHA questionnaire

Teacher Workshop 1 – Introduction of Gifted Education

- Opening ceremony

- Introduction of Gifted Education: Say “NO” to Gifted Under-achievers
  - By Dr. Patrick Hak-Chung Lam
    - Introduce Dr. Sylvia Rimm’s 4 types of underachiever
    - Sharing the strategies to support various types of underachievement in Hong Kong
- Panel Discussion with seed teachers
  - By Prof. Sin Kuen Fung Kenneth
    - Discuss the difficulties of exercising gifted education in schools and the expectation for this project

Figure 5 & 6: Photo of teacher workshop 1

Teacher Workshop 2 – Supporting Gifted Student at schools

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- Talent Development of Gifted Students for the 21st Century through STEM and beyond
  - By Dr. Wong Kam Yiu, Jimmy
    - Introduce how to develop gifted students
    - Provide examples and stories of developing underachievers
    - Demonstrate the plasticity and achievements of underachievers

- Teacher sharing
  - By seed teachers
    - Share scientific articles
    - Share their school-based enrichment program

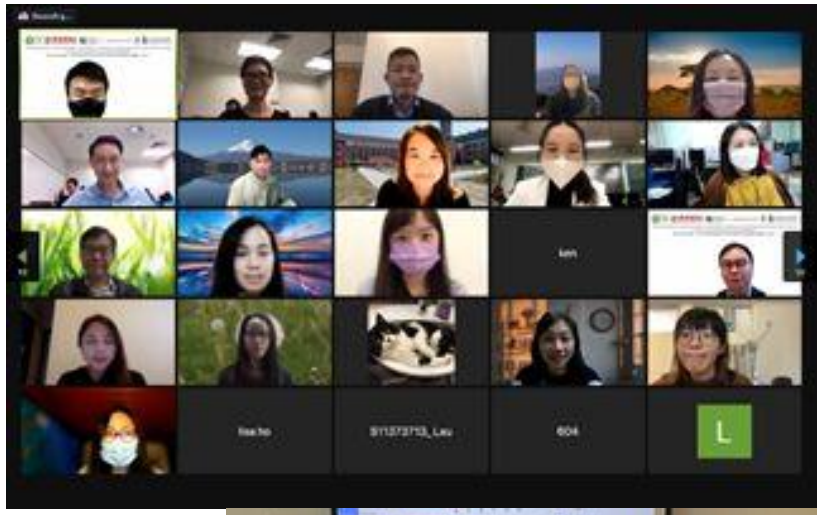

Figure 9 & 10: Photo of teacher workshop 2

Development of school-based enrichment program

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- Seed teachers develop school-based enrichment program based on the student's need at their schools
- 1 to 1 consultation with the project consultant to revise the lesson plan
- 10 well-developed school-based enrichment program

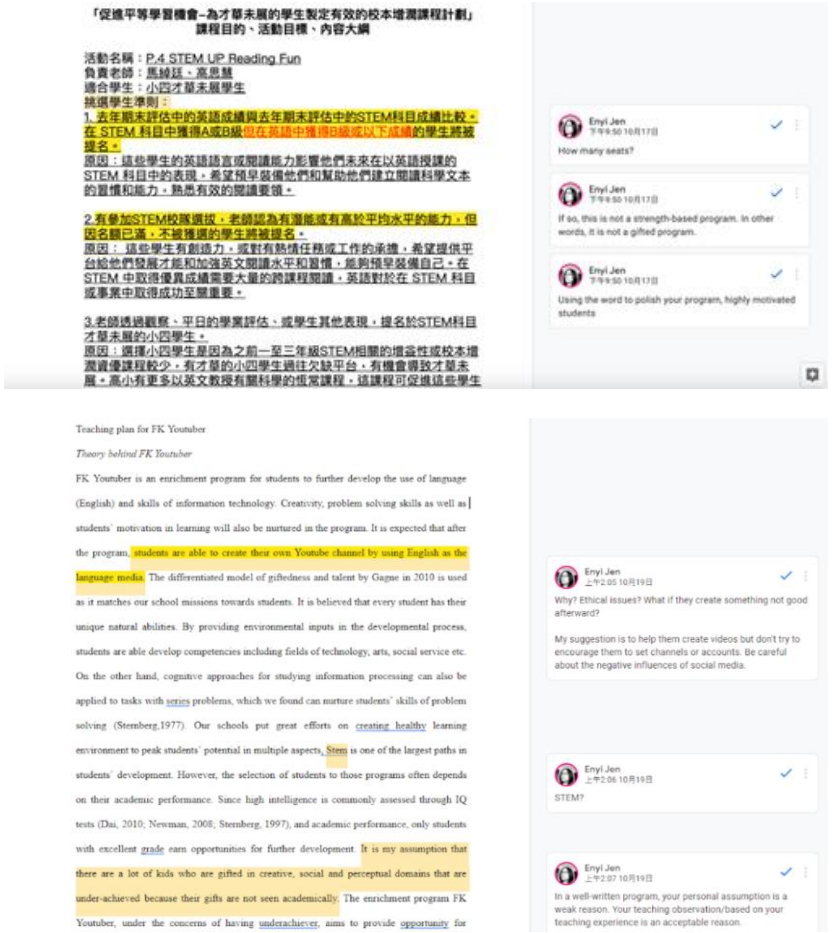

Figure 13: Example of enrichment program teaching plan

Overview of School-based Enrichment Program

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學校	種籽老師	校本增潤課程	科目	時數	參與 學生 人數
中華基督教會譚李麗芬中學	林嘉俊老師	“Be a professional foodie” -- An English based enrichment Program	英文	10 小時	10
鳳溪第一小學	麥舒老師	“FK Youtuber” – An English and IT enrichment programme	英文及資訊科技	24 小時	13
香港學生輔助會小學	李敏儀老師	“Improving the viewing rate of videos of the school YouTube channel” – An English & Leadership programme for Primary 2 students	英文	10 小時	10
保良局莊啟程小學	梅佩佩老師	Enhancing Mathematic Ability through Racing Car Activities	數學	10 小時	17
聖公會天水圍靈愛小學	盧玉淇老師	For underrepresented talent students in English Drama because of language variables	英文	12 小時	8
大埔舊墟公立學校	馬綽婷老師	運用學生 STEM 潛能，帶動學習英文的 動機	英文及科 學	15 小時	24
香港教育大學賽馬會小學	陳韻橋老師	“Becoming a YouTuber”	英文及資訊科技	10小時	20
東灣莫羅瑞華學校	余潤霞老師	“Expression” – A visual art enrichment programme	視藝	10 小時	6
滙基書院	徐銘恩老師	For underrepresented talent students in Mathematics because of the language variables	數學	10 小時	13
青年會書院	張芷恩老師	Secondary Science Enrichment Program— “Be a Scientist!”	科學	20 小時	11

Dr. Lui’s Feedback

Dr. Lui's Feedback

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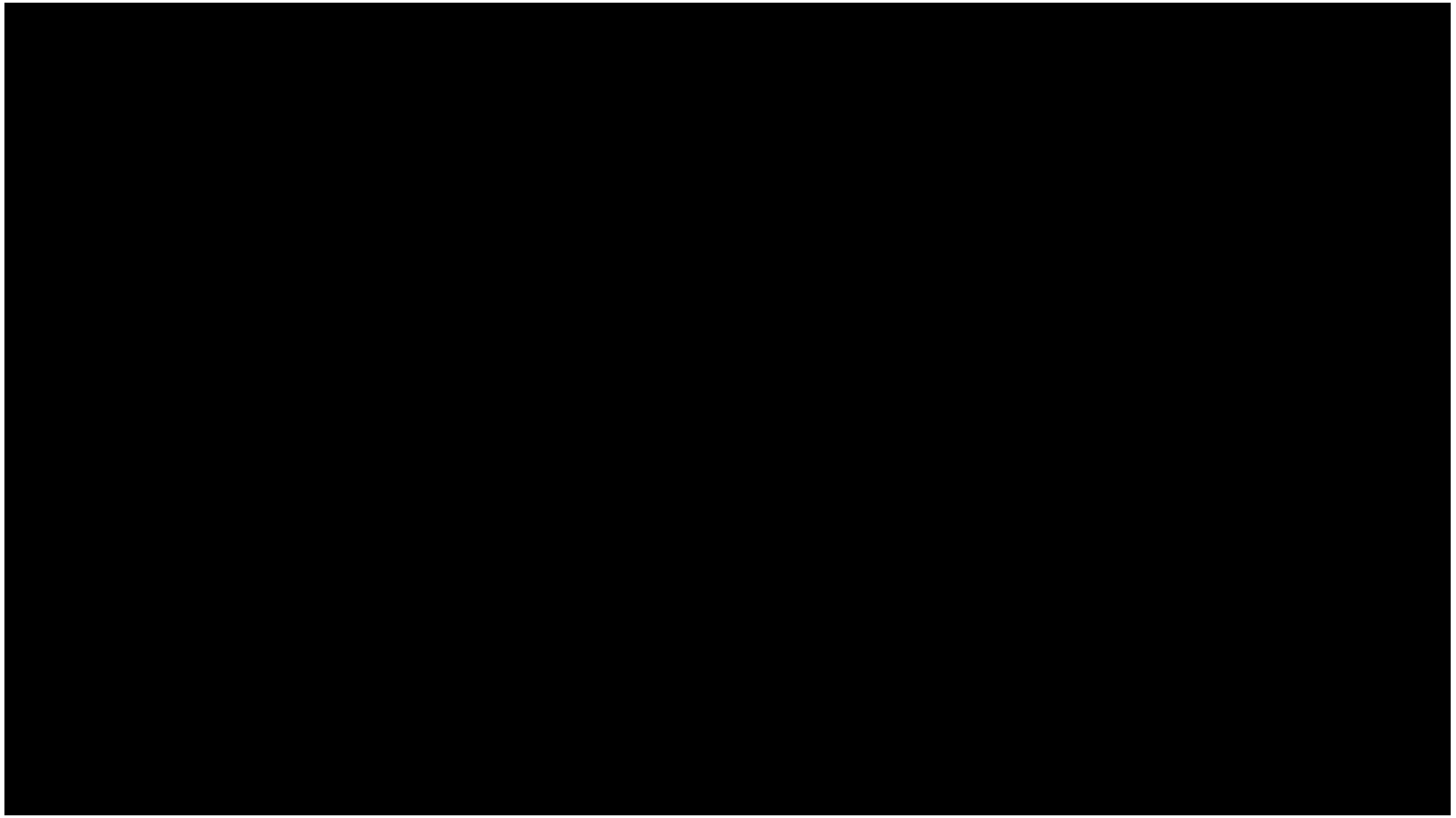

School-based Enrichment Programme Outcome

Overall Result

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Mean of Pre-test (out of 100)	Mean of Post-test (out of 100)	Pre-Post Difference	Effect size*	*p*-value#
47.56	68.45	↑20.90	8.33	$p<.001$

*Effect size is a quantitative measure of the magnitude of the experimental effect. The larger the effect size the stronger the relationship between two variables. Cohen's d: 0.2=small, 0.5 = medium, 0.8 = strong effect

#A p-value is a statistical measurement used to validate a hypothesis against observed data. A p-value of 0.05 or lower is considered the difference of students' performance changes statistically significant.

Overall Result (per school)

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	Mean of Pre-test (out of 100)	Mean of Post-test (out of 100)	Pre-Post Difference	Effect size*	*p*-value#
01	15.90	43.70	↑27.8 (174.84%)	16.92	*p*<.001
02	74.40	88.00	↑13.6 (18.28%)	6.07	*p*=.007
03	68.33	76.67	↑8.33 (12.21%)	2.89	*p*=.038
04	14.60	33.80	↑19.2 (131.51%)	17.06	*p*=.002
05	79.86	96.53	↑16.67 (20.87%)	4.20	*p*<.001
06	64.29	92.86	↑28.57 (44.44%)	3.78	*p*<.001
07	40.44	64.22	↑23.78 (50.80%)	23.16	*p*=.015
08	-	-	-	-	
09	29.68	64.06	↑34.38 (101.16%)	7.22	*p*<.001
10	40.50	56.25	↑15.75 (38.89%)	2.30	*p*=.019

Student's Perception
增潤課程有否提高你的學科興趣，為甚麼？

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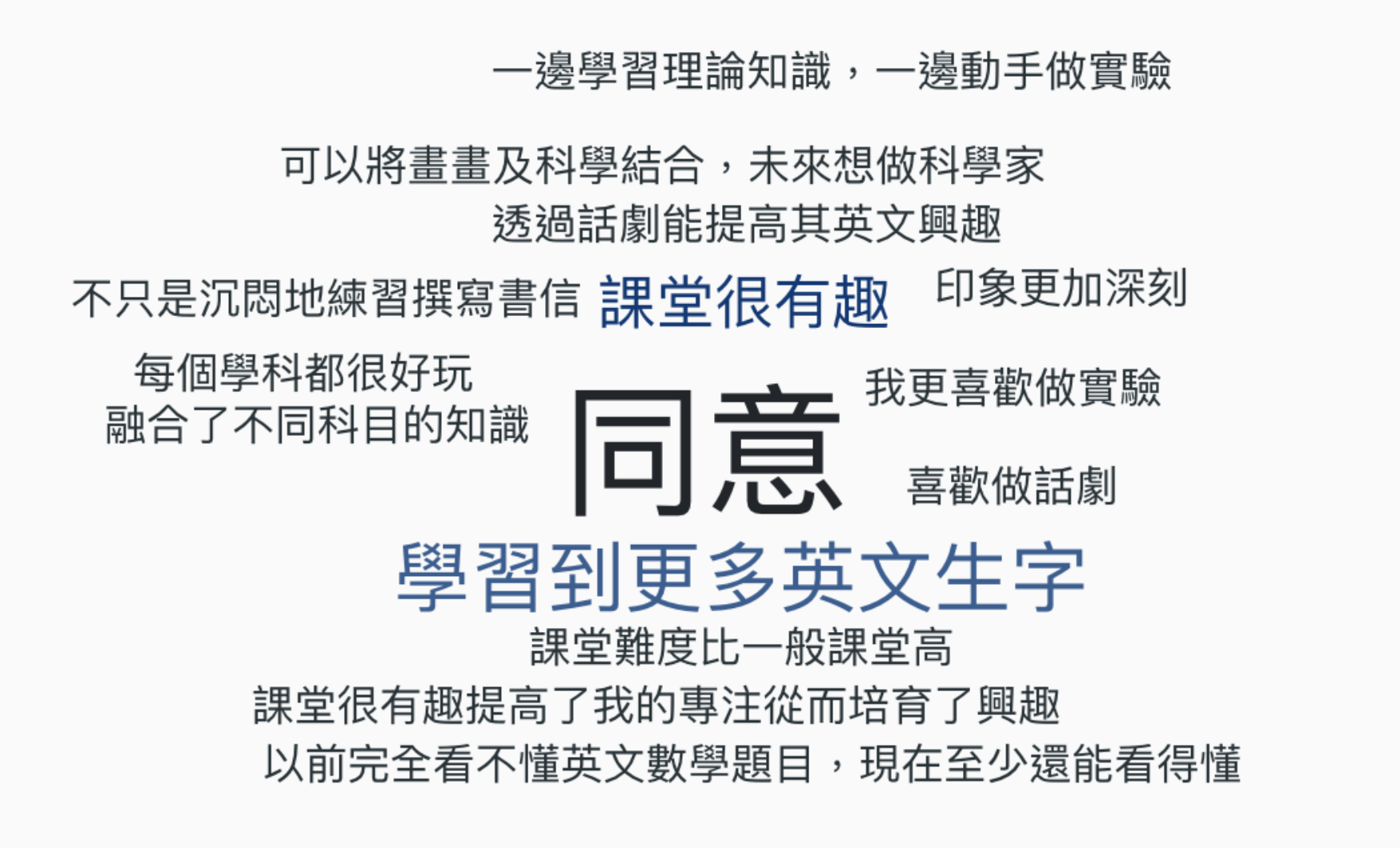

Student's Perception
如果有機會，你會想再參與這個增潤課程嗎?

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>90% 同學願意再次參與

Output

Enhancing Equality in Learning Opportunity:
Develop effective school-based enrichment programmes for
under-achievers with high ability in low social economic status

促進平等學習機會—為才華未展的基層學生製定有效的校本增潤課程計劃

TEACHER'S RESOURCE BOOK

Sharing of Lesson Plans for the
Seed Schools' Enrichment Courses

教師資源冊

種子學校增潤課程教案分享

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特殊學習需要與融合教育中心
Centre for Special Educational Needs and Inclusive Education

促進平等學習機會 -
為才華未展的學生製定有效的校本增潤課程計劃

先導計劃
成果示例

Training organization

Sponsoring organizations

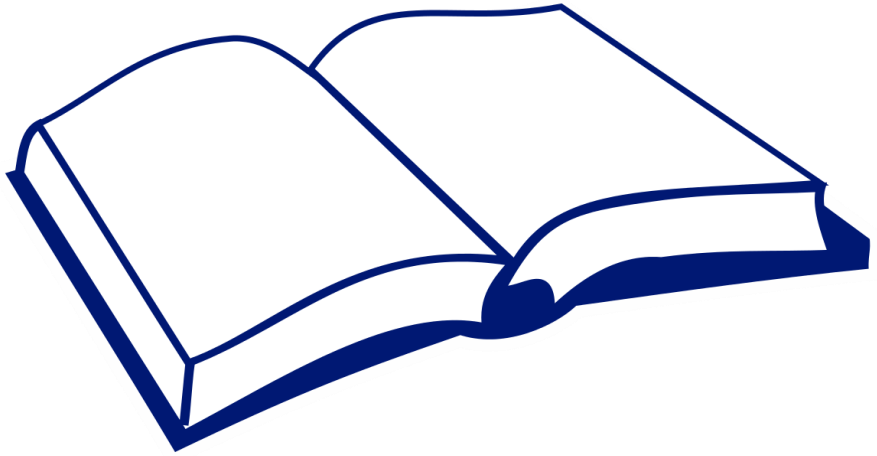
Supporting organization

What's next?

- Suggest to provide training in development and management of the gifted programmes to teachers and opportunities to practice

- "to promote students' high-order thinking skills, creativity and personal-social competence so that all students are provided with the opportunities to develop their potential." (Gifted Education Section EDB, 2015)

- Attention to high ability students with underachievement, not only the achievers



What’s Next?

Enhancing Equality in Learning Opportunity – Develop effective school-based enrichment programmes for under-achievers with high ability in low social economic status 2022-2023

Phase II 2022-2023

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- Further support by SIE Fund

- Enlarge the beneficiaries
  - Teachers: 30→ **35**
  - Students: 150→**300**
  - Parents (new): **300**
  - Total: 185 → **635**

- Parent supports

樂施會 OXFAM Hong Kong

中原慈善基金 CENTALINE CHARITY FUND

IMPACT INCUBATOR IDEAS FOR GOOD

SIE FUND 社創基金

Phase II Logic Model

35 TEACHER

- RITHA Training (Block 1)
- 3 Teacher Training
- 12 Learning Community Meeting
- 1:1 Prospective Teacher Matching from EdUHK

300 PARENTS

Parent Workshop

⋮

Resource Book

⋮

Whatsapp Group

⋮

Regularly report the student's performance to parents

→

300 STUDENTS

- Underprivileged high ability students with underachievement
- 4-6 weeks enrichment program
- Invited by seed teachers
- Evaluated by CSENIE

Phase II Project Activities

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RITHA Specialist Training (Block 1)

Seed teachers learning community

School-based enrichment program development

Parents workshop & WhatsApp group

Individual consultation on designing the enrichment program

3 Teacher workshops

+

Refine the school-based enrichment program

After the development, seed teachers conduct the enrichment program at schools with the help of partner teachers to support **150** students.

Re-run the school-based enrichment program to support 150 students

Recruiting Network Schools

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- Duration: 2022/09 to 2023/12

- Participants: 2 teachers (network teachers)

- Activities 1) Teacher's workshops
  2) Parent's talk
  3) Project dissemination

- Prioritise to participant in the next project phase

Acknowledgement

Acknowledgement

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- 鳳溪第一小學
- 香港學生輔助會小學
- 保良局莊啟程小學
- 聖公會天水圍靈愛小學
- 大埔舊墟公立學校
- 香港教育大學賽馬會小學
- 東灣莫羅瑞華學校
- 滙基書院
- 青年會書院
- 網絡學校
- 明愛聖若瑟中學
- 棉紡會中學
- 禮賢會彭學高紀念中學
- 新會商會學校
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- 余潤霞老師
- 徐鉻恩老師
- 張芷恩老師
- 輔助老師
- 李巧恩老師
- 周雯燕老師
- 蕭羽培老師
- 鍾靜儀老師
- 劉詠微老師
- 高思慧老師
- 劉傲蘭老師
- 黃詠思老師
- 黃龍傑老師
- 區紹聰老師
- 網絡老師
- 陳俊燁老師
- 郭鎂誼老師
- 鄭振壽老師
- 王文峰老師
- 李夢思副校長
- 梁麗珊老師
- 張雅靜老師
- 陳嘉雯老師
- 何芷君副校長
- 吳慧敏老師