

Mathematics

Annual Report 2025/26

I. TARGETS OF THE YEAR

	Targets	Related Learning Goals of Secondary Education
1	Enhance students' effectiveness in learning mathematics	Breadth of Knowledge, Language Proficiency, Generic Skills, Information Literacy
2	Enhance students' motivation in learning mathematics	National and Global Identity, Breadth of Knowledge, Generic Skills

II. IMPLEMENTATION PLAN

A. Strategies Related to the Targets of the Year

TARGET 1: Enhance students' effectiveness in learning mathematics

	Strategies	Success Criteria	Time Scale	People in Charge	Evaluation
1.1	Use school-based assignments aligned with public exam formats.	Target passing rate: Form 1: 90–95% Form 2: 70–80% Form 3: 70–80% Form 4: 75–85% Form 5: 75–85% Form 6: 75–85%	Whole year	WKW*, WLW	The current measures have helped the majority of students grasp fundamental mathematical concepts.
1.2	Conduct 3-minute quizzes in each lesson using school-based assignments to monitor students' learning progress.		Whole year	WKW*, CHM	
1.3	Modify school-based assignments for chapter tests, uniform tests, and exams and provide clear revision materials.		Whole year	WKW*, WLW	It is recommended to enhance support for high-ability students through differentiated instruction and tiered assignments.
1.4	Implement retest system for assessments to encourage targeted revision.		Whole year	WKW*, WLW	
1.5	Identify key skills across the curriculum and integrate them into 3-minute quizzes for reinforcement.		Whole year	WKW*, CHM	As lower-ability students start from a significantly disadvantaged position, these measures have helped them improve but are still insufficient to bring them to a passing grade.

1.6	Junior form coordinators guide teachers' teaching with DSE perspective to improve teaching effectiveness.	Target rate for scoring 70% or higher in elite classes: 1/2/3C: 60–70% 1/2/3E: 80–90% DSE exam target: Level 4+: 30–35% Level 3+: 60–65% Level 2+: 85–90%	Whole year	LTH(F1), CHM(F2), CKW(F3)	It is suggested to organize extra pre-exam revision classes before UTs and exams to help students at risk of failing consolidate their mathematical concepts.
1.7	Design tailored curriculum for elite classes to support gifted education (tier 1).		Whole year	LTH(F1), CHM(F2), NSY(F3)	
1.8	Establish “Math School Team” for top students (F1–F5) to develop students' high-order thinking and problem-solving skills and to support gifted education (tier 2).		Whole year	WLW*, HYS, LCS	
1.9	Launch “F6 Math Star Class” for top F6 students to prepare for Level 5/5*/5** in DSE and to support gifted education (tier 2).		Oct 2025 – Jan 2026	WLW*, CHM	
1.10	Encourage F4/F5 students to join CUHK summer gifted program to broaden math exposure and to support gifted education (tier 3).		Jul – Aug 2026	WLW*, CHM	
1.11	Conduct one-on-one homework tutoring for F1/F2 to clarify math concepts.		Whole year	LTH*, SWS	
1.12	Conduct F1 summer bridging classes to support their transition from primary to secondary.		Aug 2025	LTH*, HYS, SWS, WLW	
1.13	Promote Language-across-the-Curriculum with English Dept. to enhance students' English proficiency for math learning.		Whole year	LTH*, HYS	
1.14	Join EDB school-based support services to develop students' problem solving skills.		Whole year	CKW*, LTC	
1.15	Conduct mock exams for F6 to identify strengths and weaknesses early.		Dec 2025	WLW*, CHM, CKW, LTH	

TARGET 2: Enhance students' motivation in learning mathematics

	Strategies	Success Criteria	Time Scale	People in Charge	Evaluation
2.1	Inform students about test content alignment to increase their motivation and confidence.	Students' motivation in learning mathematics is enhanced.	Whole year	WKW*	Internal math activities have successfully enhanced the mathematical atmosphere on campus, but they have yet to effectively boost students' intrinsic motivation to learn the subject.
2.2	Host "Inter-house Calculator Competition" (F1 – F5) to promote school-wide math atmosphere.		March, 2026	LCS*, CKW, LTC, NSY, WKW, WPC	
2.3	Organize "Math Trail" (F1) on Academic Activity Day to enhance students' interest in math.		March, 2026	HYS*, CHM, LTH, SWS, WLW, WPC	
2.4	Launch F3 math reading program and join EDB book report competition to improve math literacy.		Oct 2025 – Mar 2026	CKW*, NSY	Observations indicate that participating in external math competitions is more effective in enhancing students' motivation and autonomy in learning mathematics. It is recommended to identify and provide more opportunities for students to participate in external math competitions in the coming year.
2.5	Host "60th Anniversary Primary Math Invitational Competition" to promote math culture.		Nov 2025	WKW*, CHM, WLW	
2.6	Set up a math booth in 60th anniversary open day to promote math culture.		Nov 2025	SWS*	

B. Regular Programs

	Strategies	Success Criteria	Time Scale	People in Charge	
1	Optimize department handbook.	Resources are well organized.	Whole year	WKW*, WLW	Complete.
2	Organize Google Drive.		Whole year	WKW*	
3	Regular backups of Google Drive.		Whole year	WKW*	
4	Update department webpage.		Sept – Oct 2025	LTH*	
5	Optimize score recording system.		Whole year	LTH*, CHM	
6	Provide CUHK internship opportunities.	Train future educators.	Whole year	WKW*, CHM, NSY	

III. FINANICAL REPORT

	Items	Expenditure	Remarks
1	Activities (Junior 1-on-1 Homework Tutoring) Hourly rate $\$250 \times 8 \text{ hours} \times 2 \text{ terms} \times 10 \text{ students per grade} \times 2 \text{ grades}$	74175	
2	Activities (Math School Team Training) Hourly rate $\$400 \times 1.25 \text{ hours} \times 10 \text{ sessions} \times 2 \text{ terms} \times 5 \text{ grades}$	40560	
3	Activities (Math School Team Competition Fees) Fee $\$250 \times 2 \text{ times} \times 10 \text{ students per grade} \times 5 \text{ grades}$ Bus Fees $\$1500 \times 4 \text{ trips}$	16105	
4	Activities (F6 Math Star Class) Hourly rate $\$400 \times 1.5 \text{ hours} \times 10 \text{ sessions}$	1890	
5	Activities (CUHK EPYMT Summer Program Subsidy) Tuition $\$4000 \times 50\% \text{ subsidy} \times 2 \text{ students}$	3350	
6	Activities (60th Anniversary Primary Math Invitational Competition)	9449.75	
7	Activities (Inter-house Calculator Competition)	2390.4	
8	Activities (Math Trail)	1818.69	
9	Teacher Reference Books	3352	
10	Library Student Reference Books	1997.6	
11	Publisher Teacher Editions and Teaching Materials	500	
12	School-based Assignment Book	5442	
13	Summer Bridging Class Notes and Summer Assignment Printing	2584	
14	60th Anniversary Open Day Expenses	4984.08	
15	Math Teaching Tools	0	
16	Stationery	0	
	Total	\$168,598.52	

IV. SUGGESTIONS FOR IMPROVEMENT

1. Enhance support for high-ability students through differentiated instruction and tiered assignments.
2. Organize extra pre-exam revision classes before UTs and exams to help students at risk of failing consolidate their mathematical concepts.
3. Identify and provide more opportunities for students to participate in external math competitions.

V. PROGRAM TEAM

Wong Ka Wing (Panel Head)
Chiu Ho Man (Deputy Panel Head)
Wong Lai Wa (Deputy Panel Head)
Cheung Kwok Wai
Ho Yee Shan
Lee Cheuk Sum
Lee Tsz Hin
Li Tak Chung
Ng Suk Yin
Sze Kelvin