

Final Report of Project

Project No. : 2009/0093

Part A

Project Title: Cultivating Active Learner in Mathematics Learning Community

Name of Organization/School: Tak Sun Secondary School

Project Period: From 06/2010 (month/year) to 08/2011 (month/year)

Part B

Please read the Guidelines to Completion of Final Report of Quality Education Fund Projects before completing this part of the report.

Please use separate A4-size sheets to provide an overall report with regard to the following aspects:

1. Attainment of objectives
2. Project impact on learning effectiveness, professional development and school development
3. Cost-effectiveness – a self-evaluation against clear indicators and measures
4. Deliverables and modes of dissemination; responses to dissemination
5. Activity list
6. Difficulties encountered and solutions adopted

** Final Report of Project prior to the 8th call should be signed by the supervisor of the school/the head of the organization or the one who signed the Quality Education Fund Agreement for allocation of grant on behalf of the organization.*

** Final Report of Project under the 8th and subsequent calls should be submitted via "Electronic Project Management System" (EPMS). Once submitted, these reports are regarded as already endorsed by the supervisor of the school/the head of the organization or the one who signed the Quality Education Fund Agreement for allocation of grant on behalf of the organization.*



Attainment of Objectives

Objective statement	Activities related to the objective	Extent of attainment of the objective	Evidence or indicators of having achieved the objective	Reasons for not being able to achieve the objective, if applicable
Bridging the mathematics learning from CMI to EMI and primary to secondary	- Learning Mathematics in English with Fun	Fully achieved	- All incoming Form 1 students (~150 students) have joined the "Bridging Programme".	/
Building a learning community at school by different types of interesting programmes	- Consultation service - Corridor Decoration & Events - Mathematics Magazine - Effective grouping with related actions	Fully achieved	- The service has been provided along the whole year and was ended before final examination started (June 2011). - All posters (4 phases in total) have been shown in terms along the whole year. - Two mathematics magazines (~800 copies each) were distributed to every student of TSSS. - The selected students have been reallocated to appropriate mathematics classes along the whole year.	/
Motivating students with different levels of performance	- Consultation service - Elite Training Course - Effective grouping with related actions - Internal and External Competitions	Fully achieved	- The service has been provided along the whole year and was ended before final examination started (June 2011). - The training has been provided along the whole year and was ended before final examination started (June 2011). - The selected students have been reallocated to appropriate mathematics classes along the whole year. - The students of TSSS have been participated in 5-6 external Mathematical competitions by the end of August 2011.	/



Catering for the needs of less able and more able students	<ul style="list-style-type: none">- Consultation service- Elite Training Course- Effective grouping with related actions	Fully achieved	<ul style="list-style-type: none">- The service has been provided along the whole year and was ended before final examination started (June 2011).- The training has been provided along the whole year and was ended before final examination started (June 2011).- The selected students have been reallocated to appropriate mathematics classes along the whole year.	/
Arousing students' interest in learning mathematics	<ul style="list-style-type: none">- Consultation service- Corridor Decoration & Events- Mathematics Magazine- Effective grouping with related actions- Learning Mathematics in English with Fun- Internal and External Competitions	Fully achieved	<ul style="list-style-type: none">- The service has been provided along the whole year and was ended before final examination started (June 2011).- All posters (4 phases in total) have been shown in terms along the whole year.- Two mathematics magazines (~800 copies each) were distributed to every student of TSSS.- The selected students have been reallocated to appropriate mathematics classes along the whole year.- All incoming Form 1 students (~150 students) have joined the "Bridging Programme".- The students of TSSS have been participated in 5-6 external Mathematical competitions by the end of August 2011.	/



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Project Impacts

Effects of the project	Activities related to the effects	Evidence or indicators of the effects appeared
Broaden students'/teachers' horizons	- Mathematics Magazine - Internal and External Competitions - Corridor Decoration & Events	- Two mathematics magazines (~800 copies each) were distributed to every student of TSSS. - The students of TSSS have been participated in 5-6 external Mathematical competitions by the end of August 2011. - All posters (4 phases in total) have been shown in terms along the whole year.
Increase students'/teachers' sense of achievement	- Consultation service - Elite Training Course - Mathematics Magazine	- The service has been provided along the whole year and was ended before final examination started (June 2011). - The training has been provided along the whole year and was ended before final examination started (June 2011). - Two mathematics magazines (~800 copies each) were distributed to every student of TSSS.
Foster students' development in their potential and specific abilities	- Elite Training Course - Mathematics Magazine	- The training has been provided along the whole year and was ended before final examination started (June 2011). - Two mathematics magazines (~800 copies each) were distributed to every student of TSSS.



Train students to better meet social demands	<ul style="list-style-type: none">- Consultation service- Elite Training Course- Learning Mathematics in English with Fun	<ul style="list-style-type: none">- The service has been provided along the whole year and was ended before final examination started (June 2011).- The training has been provided along the whole year and was ended before final examination started (June 2011).- All incoming Form 1 students (~150 students) have joined the "Bridging Programme".
Increase training opportunities for teachers and enhancing their professional development	<ul style="list-style-type: none">- Mathematics Magazine- Consultation service- Elite Training Course	<ul style="list-style-type: none">- Two mathematics magazines (~800 copies each) were distributed to every student of TSSS.- The service has been provided along the whole year and was ended before final examination started (June 2011).- The training has been provided along the whole year and was ended before final examination started (June 2011).
Improving learning atmosphere	<ul style="list-style-type: none">- Effective grouping with related actions- Corridor Decoration & Events	<ul style="list-style-type: none">- The selected students have been reallocated to appropriate mathematics classes along the whole year.- All posters (4 phases in total) have been shown in terms along the whole year.
Foster team spirit and enhancing the overall image of the school	<ul style="list-style-type: none">- Internal and External Competitions- Corridor Decoration & Events	<ul style="list-style-type: none">- The students of TSSS have been participated in 5-6 external Mathematical competitions by the end of August 2011.- All posters (4 phases in total) have been shown in terms along the whole year.
Induce collaboration with other schools / professional organizations	<ul style="list-style-type: none">- Internal and External Competitions	<ul style="list-style-type: none">- The students of TSSS have been participated in 5-6 external Mathematical competitions by the end of August 2011.



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Budget-Checklist

Budget Items (Based on Schedule II of Agreement)	Approved Budget (a)	Actual Expense (b)	Change [(b)-(a)]/(a) +/- %
Staff Cost	\$211,050	\$201,688.20	-4.436%
Equipment	\$33,700	\$31,704.60	-5.921%
General Expense	\$40,600	\$40,695.32	0.235%
Contingency	\$2,050	0	-100%
TOTAL	\$287,400	\$274,088.12	-4.632%



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Deliverables and Modes of Dissemination

Item description (e.g. type, title, quantity, etc.)	Evaluation of the quality and dissemination value of the item	Dissemination activities conducted (e.g. mode, date, etc.) and responses	Is it worthwhile and feasible for the item to be widely disseminated by the QEF? If yes, please suggest the mode(s) of dissemination.
Two mathematical magazines – “Mathematics Café (108 pages)” and “Mathematics Wonderland (44 pages)”	The final mark of Mathematics Magazine is 4.1 over 5, according to 390 completed survey forms collected by teachers.	800 copies of “Mathematics Café” and “Mathematics Wonderland” were distributed to every students of TSSS	N/A
Mathematical posters for corridor decoration	The final mark of Corridor Decoration is 4.2 over 5, according to 390 completed survey forms collected by teachers.	About 20 posters (4 phases in total) were displayed in turn on the corridor of 3/F of TSSS.	N/A



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Activity List

Types of activities (e.g. seminar, performance, etc.)	Brief description (e.g. date, theme, venue, etc.)	No. of participants				Feedback from participants
		schools	teachers	students	others (Please specify)	
Consultation service	16:00-17:30 every week, Monday to Thursday, (September, 2010 – June, 2011). Provided for less able students to learn mathematics individually with the coordinator.	1	8	10~20 students each period	/	N/A



Elite Training Course	Every Tuesday and Thursday, 16:00-17:00, (September, 2010 – June, 2011). The selected higher achievers will be invited to attend the training courses to train their problem-solving skills, creativity and critical thinking skills.	1	3	Around 10 students each period	/	N/A
Corridor Decoration & Events	(September, 2010 – June, 2011). Some posters will be displayed on the wall to share the mathematics world with our students beyond the textbooks.	1	3	All Form 1 to Form 3 students	/	N/A
Special School Events	3 April, 2011, P.I. Day. Students are encouraged to memorize as much digit of PI as possible. The students with the best performance will be awarded.	1	3	Around 100 students	/	N/A



Mathematics Magazine	Higher achievers in junior and senior form will try to write some interesting topics in mathematics.	1	3	Every student in TSSS should get 1 copy of both magazines	/	N/A
Effective grouping with related actions	Some class work will be presented at once by a visualizer to point out the common mistakes and appreciate the good work from the students, which is the effective way to help them memorize the rules and steps in manipulation.	1	8	All F.1 Students (~150 students)	/	N/A
Learning Mathematics in English with Fun	The "Bridging Programme" was held on July 2010. Student-centred activities and games will be introduced to arouse the students' interests and to experience mathematics with fun in order to establish an active learning culture in their own hearts and at our school.	1	3	All F.1 Students (~150 students)	/	N/A



優質教育基金
Quality Education Fund

M:FR/E

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Difficulties Encountered and Solutions Adopted

- Changes in Schedule of the 4th phase posters

- Budget Item Reallocation

The visualizers were borrowed by teachers about 140 times in total from September 2010 to August 2011, and the responses from the teachers are highly positive. Currently there are three visualizers available for borrowing. As sometimes more than three teachers requested to borrow visualizers, and we believe the requests of borrowing visualizers will increase gradually. We decided more than three visualizers are necessary, at last two extra visualizers were purchased in response to the increasing demand from teachers.