

M:FR/E

Final Report of Project

Project No.:

2012/0227

Part A			
Project Title: _ Collaborative and Interacti	ve Mobile Platform for	LEarning (CIMPLE)	
Name of Organization/School: Hong	Kong Baptist University	y	
Project Period: From Jan 2014	(month/year) to	Nov 2015	(month/year)
Part B Please read the Guidelines to Completion of this part of the report.	Final Report of Quality	Education Fund Projects	before completing
Please use separate A4-size sheets to provi	de an overall report with	n regard to the following	g aspects:
1. Attainment of objectives			
2. Project impact on learning effective	eness, professional deve	lopment and school dev	elopment
3. Cost-effectiveness – a self-evaluati	on against clear indicate	ors and measures	
4. Deliverables and modes of dissemi	nation; responses to dis-	semination	
5. Activity list			
6. Difficulties encountered and solution	ons adopted		
Name of During Lands	Nome	C*	
Name of Project Leader:	Name of	Grantee*:	
Signature:		Signature:	•
Date:		Date:	

^{*} Final Report of Project 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.



1. Attainment of Objectives

Objective statement	Activities related to the objective	Extent of attainmen t of the objective	Evidence or indicators of having achieved the objective	Reasons for not being able to achieve the objective, if applicable
			1. The CIMPLE web and mobile applications are developed and used in CAHCC	
To provide a highly usable way to produce and share interactive	 Web application platform and mobile applications development 	E., II., 2.		
collective learning in which the students are encouraged to	3. Training workshop on CIMPLE system for CAHCC teachers	achieved	classwork are stored in CIMPLE for sharing among the classes	
participate actively	4. Trail lessons on using CIMPLE in P.4 and P.5 classes of CAHCC	ć.	CAHCC teachers started to use CIMPLE in other subjects, e.g. Chinese language lesson	
			Students showed that they are capable to apply the drawing skill in their artworks after viewed the	
To allow students to understand	Trail lessons on using CIMPLE	Enfly	replay of teacher's drawing in CIMPLE	
derived instead of getting the results only	(drawing pad apps) in visual arts lessons of CAHCC P.4 and P.5 classes	achieved 2.	Both teachers and students mentioned in the questionnaire that the replay function in drawing pad apps can helps students to understand how the ideas or answers are derived	ae ()

This form/guidelines can be downloaded from the QEF webpage at http://qef.org.hk.



To help students to build up creative, logical thinking and initiative characteristics	 Trail lessons on using CIMPLE (drawing pad apps) in visual arts lessons of CAHCC P.4 and P.5 classes Trail lessons on using CIMPLE (treasure hunt apps) in P.4 and P.5 classes of CAHCC 	Fully	Both teachers and students mentioned in the questionnaire that CIMPLE drawing pad and treasure hunt apps can help students to build up creative, logical thinking and initiative characteristics	par el lorino vernario de la contacto de la contact
To reduce students' learning capability diversity	Trail lessons on using CIMPLE (drawing pad apps) in visual arts lessons of CAHCC P.4 and P.5 classes	Fully	Both teachers and students mentioned in the questionnaire that the replay function in drawing pad apps can allow students to learn and review at their own pace so as to reduce their learning capability diversity	
To support the primary schools to conduct non-conventional learning activities more effectively	Trail lessons on using CIMPLE (treasure hunt apps) in P.4 and P.5 classes of CAHCC	Fully achieved	CAHCC teachers expressed that CIMPLE treasure hunt apps and web configuration functions could much reduced their workload and manpower needed to conduct treasure hunt activity when comparing with previous workflow	induculari sentra di se Li begi di tanggi ta sent Sagan esah di Pakka
To help teachers and parents to understand students' learning progress, strength and weakness	 Web application platform and mobile applications development Training workshop on CIMPLE system for CAHCC teachers 	90% attained	CIMPLE provides a function to generate different reports on students' learning progress, strength and weakness for teachers' evaluation and reference	CAHCC does not allow the parents to use CIMPLE at the moment.

Table 1: Attainment of Objectives



2. Project Impact on

The use of ipad in the traditional lesson can provide an alternative teaching and learning method to both teachers and students which encouraging more interaction and collaboration between teachers and students as well as students and students. During the CIMPLE drawing pad trial lessons, students were impressed by the replay function of the apps and some of them showed that they were capable to learn and apply the drawing skill immediately after viewed the replay of teacher's sample drawing. In addition, students were more willing to share and discuss their artworks with each other by using the replay function during the class. And through this sharing action, some students, who were not able to apply the drawing skill at the beginning, could learn and be capable to apply the skill on their drawing finally. It is one of the major targets of this project – to reduce students' learning capability diversity.

Since students could learn and apply the skill quickly, they were more confident and actively to discuss, share or even teach other classmates. It provided an opportunity for training their presentation and communication skills which are the important skills throughout their life. Furthermore, this interactive communication between them also improves the overall learning atmosphere and will be promoted to other subjects.

Treasure hunt app is another major application provided in CIMPLE package. It assists teachers to hold a non-conventional activity for the students. The game is played in group which aims to train students' team spirit, problem solving and knowledge applying on the real situation. During the trial run, it is observed that students worked as teams to discuss the questions of each check point and some teams also showed division of labour for solving the problem.

After the trail lessons on using drawing pad and treasure hunt apps, a survey was conducted to collect teachers' and students' opinions toward CIMPLE. There are 9 teachers (4 of Visual Arts and 5 of Mathematics) and 117 P5 students participated and the results are summarized as below:

Drawing Pad	Treasure Hunt
Over 70% students agreed this App can help them:	Over 75% students agreed this App can help them:
• to understand the teaching materials and	 to build up their team work spirit
technique	• to improve their problem solving skill
• to remember the points covered in the class easily	• to increase the learning atmosphere and
• to understand their weakness	interaction with others
• to increase the learning atmosphere and	
interaction with others	
• to bring up their creativity	
Teachers agreed this App can help students to build up	Teachers agreed this App can help students to build up
their self-learning and creativity	their team work spirit and leadership capability



In conclusion, the developed CIMPLE platform achieves the proposed project goals and it is believed that CIMPLE can be applied to other subjects with similar result.

On the other hand, a dissemination experience sharing seminar was held on 21st Nov, 2015. There are 17 teachers from 9 primary schools attended the meeting and most of them though that CIMPLE can enrich the current teaching methods and expressed their interest to use CIMPLE in their school.

3. Cost-effectiveness

Budget Items (Based on Schedule II of Agreement)	Approved Budget (a)	Actual Expense (b)	Change [(b)-(a)]/(a) +/- %
Staff Cost	\$529,200	\$524,017.74	-0.98%
General Expenses	\$55,000	\$40,238.56	-26.84%
Equipment	\$110,000	\$105,102	-4.45%

Table 2: Budget Checklist

All allocated budgets in this project are used for CIMPLE development and implementation. And there is around 26.84% of the general expense remained which mainly came from the promotional items expense because team using the electronic means to promote CIMPLE such as setup a web site, seminar invitation and registration by email. Besides, some printing was absorbed by internal resources

The unit cost for the direct beneficiaries in this project is around \$2,545 (\$669,358.3/263). In general, it is supposed that CIMPLE platform can be used for more than 3 years or even longer with appropriate software and hardware maintenance. Since the whole set of CIMPLE platform source code with setup and implementation manuals will be available for download (the distribution method is subjected to the discussion with QEF office), the other interested schools can deploy the current CIMPLE platform to their school without any cost incurred provided that they have similar hardware

Or in other words, the required cost to replicate CIMPLE by other schools without any additional hardware could be similar to the allocated equipment budget (i.e. ~\$110,000).



4. Deliverables and Modes of Dissemination

tion of the Dissemination activities ity and conducted (e.g. mode, date, etc.) itiem Dissemination activities Is it worthwhile and feasible for the item to be widely disseminated by the QEF? If yes, please suggest the mode(s) of dissemination.	ped web and Deployed and used by Vith the succeeded case in CAHCC, CIMPLE platform can be deployed to other primary schools with similar hardware. All CIMPLE contents can class 4 and 5 with 252 students and 11 teachers in 2014/2015 academic year It was released on Dec 2015. It includes related information and function demonstration videos for the public to
Evaluation of the quality and dissemination value of the item	The developed web and Demobile applications are Successfully implemented in CAHCC and meet the and users' expectation accusers' expectation accusers' expectation accusers' expectation accusers' expectation accusers' expectation accuse accus
Item description (e.g. type, title, quantity, etc.)	One CIMPLE web application and three commobile apps (Drawing Pad, Treasure Hunt and Homework Uploader) with setup and implementation manuals One CIMPLE information web site

Table 3: Dissemination Value of Project Deliverables



5. Activity List

Types of activities			No. of pa	No. of participants		
(e.g. seminar, performance, etc.)	Brief description (e.g. date, theme, venue, etc.)	schools	schools teachers	students	others (Please specify)	Feedback from participants
Training workshop	Date: 27/08/2014 11:30 - 12:30	-	10			The functions provided by CIMPLE met the CAHCC teachers' expectations and would be
	Venue: CAHCC					trial run in selected Visual Arts and Mathematics lessons
	Training workshop on CIMPLE system					
	(mobile and web)					
Trial lesson	Date: 13, 20, 22& 24/10/2014			26~36		Both teachers and students agreed that the
for CIMPLE	~2 hrs per lesson		lesson	per		apps can fulfilled defined project goals. Some
Drawing Pad	Venue: CAHCC			ICSSOII	chang.	modifications were proposed for actual usage.
	Trial lesson with P.5 classes for					
	CIMPLE Drawing Pad					
Trial lesson	Date: 23/1/2015	_	4	59		Both teachers and students agreed that the
for CIMPLE	11:00 - 14:00					apps can fulfill the defined project goals.
Treasure Hunt	Venue: CAHCC					some mounications were proposed for actual usage.
	Training workshop and pilot run (with					
	P.5 class A & C students) for Treasure					
	Hunt					



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	Date: 27/1/2015	П	4	58		
	11:00 - 14:00				_	
	Venue: CAHCC					
	Pilot run (with P.5 class B & D students)					
	for Treasure Hunt					
	Date: 24/6/2015	1	7	128		
	10:00 - 12:30					
	Venue: CAHCC					
	Pilot run (with P.4 students) for Treasure					
	Hunt					
Progress update	Progress update Date: 27/1/2015				r-	
meeting with	14:45 - 15:15					
QEF Steering	Venue: QEF Head Office					
Committee	Progress update meeting with QEF				12.	
	Steering Committee					
Web System	Date: 24/6/2015	1	2			The graphical presentation of student
Demonstration	14:00 - 17:00					performance statistic is helpful for the teachers to study or review students?
	Venue: CAHCC					performance more easily, especially the trend
	Demonstration on Web Administration					of performance of a student from P1 to P6
	System - Student Performance Statistic					
	Section					



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mentation	Implementation Date: 21/11/2015	7	1,	IMOSE OF THE PARTICIPANTS THINK THAT CHAIPLE
Experience	13:00 - 16:30			can enrich the current teaching methods and
ing Seminar	Sharing Seminar Venue: HKBU			expressed their interest to use CIMPLE in their school
Workshops	and Workshops CIMPE Implementation Experience			
semination	(Dissemination Sharing Seminar and Workshops			edit of the second seco
Meeting)				icas nuto

Table 4: Activity List



6. Difficulties Encountered and Solutions Adopted

Three month project extension was applied as the recruitment process taken time such that project started late for around two month. team was capable to complete the development on time, however, extra time for finishing the project as a self-contained package (e.g. including user manual, training materials & video, etc.) are required for the project to be adopted easily in other schools (if any) in the future.