

Action Plan

“IMPROVING TEACHING METHODS IN MATHEMATICS” JFY2010

Name	Jefferson Thomas
Country	Republic of Palau
Organization	Ministry of Education
Position	Classroom Teacher

Title	Improving teaching approaches in mathematic through lesson study
Period	April 2011 to May 2013
Target Location	Melekeok Elementary School
Target Group	Melekeok Elementary School Teachers

NARRATIVE SUMMARY	
<OVERALL GOAL> Improving Students’ Grade Point Average in Mathematics	
<SPECIFIC OBJECTIVES>(PROJECT PURPOSE) Improve teachers competencies in mathematics’ learning target through Japanese method of Lesson Study.	
<YOUR LEARNING IN JAPAN> Process of lesson preparation including posing problem, open ended approach, problem solving approach, lesson study and different motivational activities. Components of problem solving approach as problem posing, independent learning, comparing and discussion, summary.	
<OUTPUTS> by applying your learning in Japan>	
Output 1-Lesson observation system is developed.	
Output 2-Teachers have better skills and knowledge in developing improved lesson plan.	
Output 3-Teachers are exposed to many different mathematics teaching approaches.	

<ACTIVITIES>

Output 1- Lesson Study observation system in developed.

Activity 1-1: Teacher Thomas introduce the Lesson Study Project to principal and teachers at Melekeok Elem. School

Activity 1-2: Principal notifies Director of Curriculum and Math content specialist about the action plan to be undertaken.

Activity 1-3: : Lesson Study work shop takes place

Output 2- Teachers have better skills and knowledge in developing improved lesson plan.

Activity 2-1: Teacher Thomas introduces and gives overview of preparing Lesson Plan base on Japanese method and approaches.

Activity 2-2: First Lesson Study conduct by Teacher Thomas and observed by all Melekeok Elem. School teachers, math specialist and former trainee takes place.

Output 3- Teachers expose to different mathematic teaching approaches as posing problem, independent learning, comparing and discussion and summary.

Activity 3-1- Principal makes necessary arrangement for substitute teachers to take over the classes while teachers observe lesson study.

Activity 3-2- Teachers discuss the lesson delivery and approach and share their recommendations for improvements base on check list results and evaluation.

Activity 3-3- Teachers help each other with lesson plan and materials preparation.

Plan of Operation

Output	Activities	Expected Results	Time Schedule	Person in charge	Implementers	Materials, equipments	Remarks
Output 1- Lesson Study observation system in developed.	Activity 1-1: Teacher Thomas introduce the Lesson Study Project to principal and teachers at Melekeok Elem. School	1-1 Principal and teacher knows detail description of lesson study	April 2011	Teacher Thomas, Math Specialist (MOE), and former trainee	Teacher Thomas and Math Specialist (MOE)	CDs and materials obtained from Japan training	Time table is subject to change depending on an official school annual calendar and other urgent unexpected matters.
	Activity 1-2: Principal notifies Director of Curriculum and Math content specialist about the action plan to be undertaken.	1-2 Approval of the Plan and distribution to stakeholders	April 2011	Principal	Principal, Math Specialist	Copy of Action Plan	
	Activity 1-3: Lesson Study work shop takes place	1-3 Principal and teachers knows the process of problem solving approach, open ended approach, lesson study, additional motivational activities and importance of working collaboratively.	April 2011	Teacher Thomas, Math Specialist (MOE), and former trainee	Teacher Thomas and Math Specialist	CDs and materials obtained from Japan training	JICA volunteers will be helping implementing the plan.

Output	Activities	Expected Results	Time Schedule	Person in charge	Implementers	Materials, equipments	Remarks
Output 2- Teachers have better skills and knowledge in developing improved lesson plan.	Activity 2-1: Teacher Thomas introduces and gives overview of preparing Lesson Plan base on Japanese method and approaches.	2.1 Teachers prepare lesson plan base on Japanese lesson plan including problem solving approach, open ended problem and board writing management	2011-July	Teacher Thomas, Principal	Teacher Thomas		Time table is subject to change depending on an official school annual calendar and other urgent unexpected matters.
	Activity 2-2: First Lesson Study conduct by Teacher Thomas and observed by all Melekeok Elem. School teachers, math specialist and former trainee takes place.	2.2 Teachers will know how lesson study is conducted and the idea behind.	2011-August	Teacher Thomas, Math Specialist	Teacher Thomas	Lesson Plan, materials and checklist	JICA volunteers will be helping implementing the plan.

Output	Activities	Expected Results	Time Schedule	Person in charge	Implementers	Materials, equipments	Remarks
Output 3- Teachers expose to different mathematic teaching approaches as posing problem, independent learning, comparing and discussion and summary.	Activity 3-1- Principal makes necessary arrangement for substitute teachers to take over the classes while teachers observe lesson study.	3.1 Teachers engage w/ lesson study w/out interrupting students' learning process	2011- August	Teacher Thomas and Math Specialist	First Grade Teacher	Lesson Plan with four component Check list, Japanese Grade 1 text book	Time table is subject to change depending on an official school annual calendar and other urgent unexpected matters. JICA volunteers will be helping implementing the plan.
	Activity 3-2 Teachers discuss the lesson delivery and approach and share their recommendations for improvements base on check list results and evaluation.	3.2 Improved lesson plan is produced.	2011- August	Teacher Thomas and Math Specialist	First Grade Teacher	Lesson Plan with four component Check list, Japanese Grade 1 text book	
	Activity 3-3- Teachers help each other with lesson plan and materials preparation.	3.3 Better version of plan will be produced and implemented.	2011- September	Teacher Thomas, Math Specialist	Teachers	Appropriate materials base on lesson's objective	

NEXT STEP							
Output	Activities	Expected Results	Time Schedule	Person in charge	Implementers	Materials, equipments	Remarks
Output 1- Ngiwal Elem. School teachers introduced to Japanese style of teaching mathematic through lesson study.	Activity 1.1 Teachers Thomas introduce the concept of Lesson Study including materials acquire from JICA training in Japan for information.	Positive response receive accepting the challenge of introducing lesson study to the school.		Teacher Thomas	Teacher Thomas, Principal	All materials from JICA training form Japan.	