The JICA Project 2003-2006

Improvement of Science and Mathematics Education in Primary Schools in Egypt

	Out line of the Project
Peri	iod 2003 Apr 2006 March
Air	ms
To	improve a teaching method in elementary mathematics and science
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Main Activities of Egypt side

2003 Sep. - 2005 Apr. School visiting *To approach the aims, we have revised the guidebook under co-operation with Hokkaido Univ. of Education and used it in pilot schools.

2005 Sep. – 2006 Feb. Teacher training in Cairo governorate *To introduce this teaching method to other experimental language school teachers. *To propose a teachers training course which include a class observation and discussion about it – we call this class observation-discussion "open class".

Open Classes in pilot schools twice in a year which is not related to teacher training in Cairo Governorate

Mathematics Education in Egypt

- Traditional Education Class is dominated by teacher Teacher centered
- Teachers copy their knowledge into his students: students sit and listen
- memorization focused didactic style
- students become **passive**
- "Didactic" means
- "Telling people things rather than letting them find out for themselves" --- by Oxford Dictionary
- •After the class Students will say "I **know (memorized)** it
- •Memorization alone cannot make creative thinking
 - Mathematics Education in Egypt is Traditional Education

Principles of project (protocol)

- Cooperation between Hokkaido Univ. of education staff and NCERD staff.
- Child centered- study, problem solving
- Review the guidebooks of teaching mathematics



The Underlying ConceptImage: Strain of the Underlying Concept<tr

Methodology, Design and Procedures

- Eight experimental schools were selected in this project, four of them as a pilot school, others as control schools.
- Long Term Study, the same students from Fourth grade to Sixth grade, also it depends on pre _ post Test and Questioner









3- Mathematics training course in Cairo governorate training center

- Training Course1: 21st,28th Sep, 5th Oct. 2005.
- Training Course2: 19th, 26th Oct, 9th Nov. 2005
- Training Course3:16th 23rd 30th Nov. 2005.
- Training Course4: 8th 10rd 15th Feb. 2006.

Content of Training Courses The outline of guidebook of Mathematics lessons

1. What to Teach

- *What are the subjects in the unit
- *Where is the unit placed in the primary school mathematics
- *Where should learners reach ?

2.Why to Teach

- *Why children should learn the subjects in this unit?
- 3.How to Teach* Dividing the unit into sub-units.
- *Making Teaching scenario
- Making Teaching scenario





















Closing lesson is necessary.