Primary School

To be filled in by

Mathematics Education KLA Teacher

Survey on the Implementation of

Key Learning Area Curricula in Schools 2003

The Curriculum Development Institute (CDI) of the Education and Manpower Bureau has commissioned the Division of Social Studies of City University of Hong Kong to conduct the captioned Survey. The information collected will be used to make decisions on how to support teachers and heads better in the implementation of the curriculum reform. Please fill out the questionnaire and pass it on to the School Head or the representative of your school on or before 28 July 2003.

The survey will be conducted in an anonymous manner. All the information collected will be **kept in strict confidence** and will be used only for the evaluation of the curriculum implementation. If you have any questions, please contact our Research Assistant, Ms Flora Fu, at 2788 9034. Thank you for your cooperation!

Please read the statements in this questionnaire carefully. Then check the appropriate box for your chosen answer or write down your answers in the space Provided.

Section A Aims and Strategies of School Curriculum Development

1.	The statements below refer to the aims of the current school curriculum reform that schools should achieve within 10 years. To what extent do you agree with these aims?	Disagree	No Opinion	Agree	Strongly Agree	Don't Know
	Students will					
	• recognize their roles and responsibilities as members in the family, society and the nation; and show concern for their well-being					
	• understand their national identity and be committed to contributing to the nation and society					
	• develop a habit of reading independently					
	 engage in discussion actively and confidently in English and Chinese (including Putonghua) 					
	• develop creative thinking and master independent learning skills (e.g. critical thinking, information technology, and self-management)					
	• possess a breadth and foundation of knowledge in the eight					
	Key Learning Areas					
	• lead a healthy lifestyle and develop an interest in and appreciation of aesthetic and physical activities					

2.	VOU ASTRE WITH THESE ATTIS!	Disagree	No Opinion	Strongly Agree	Don't Know
	 Every learner should have ability to think, to inquire, to reason, to communicate, to solve problems, and to appreciate the aesthetic nature and cultural aspect of mathematics 				

3.	The statements below refer to the short-term (2002-06) focuses of curriculum development in the Mathematics Education Key Learning Area. To what extent do you agree with these focuses of development?	Strongly	Disagree	No Opinion	Agree	Strongly Agree	Don't Know
	 Schools and teachers focus on discouraging students to do meaningless drilling adapting the mathematics curriculum to cater for student diversities so as to help students to do projects, exploratory activities, consolidation/enrichment activities, etc encouraging more teacher/student interactions in class helping students develop a positive attitude towards mathematics learning using diversified learning activities and tools to arouse students' interest in learning mathematics and to foster high-order thinking skills using diversified assessments for improving learning and teaching 						

4.		Have you read the following key curriculum documents? If you have, to what extent do you find the documents helpful in		Have read						
	implementing the Mathematics Education Key Learning Area curriculum reform in your school?		not yet read	Not Helpful	Slightly Helpful	Helpful	Very Helpful	No opinion		
	a)	Basic Education Curriculum Guide (Primary 1 – Secondary 3)								
	b)	Mathematics Education Key Learning Area Curriculum Guide (Primary 1 – Secondary 3)								
	c)	Mathematics Education Key Learning Area – Mathematics Curriculum Guide (P1-P6) (2000)								
	d)	小學數學科教學資料冊 (第一輯)(2001)								
	e)	小學數學科教學資料冊 (第二輯)(2002)								
	f)	小學數學輔導教學 (2001)								

5.	Other views and suggestions for this section (Aims and Strategies of School Curriculum Development):
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Section B Confidence and Competence in Implementing Curriculum Reform

6.	As	a teacher of the Mathematics Education Key		Conf	idence	Level			Comp	etence	Level	
	Lea	arning Area,										
	f - h	now confident are you in implementing the following strategies in your school? now competent are you in implementing these trategies?	Low	<		>	High	Low	<		>	High
		<u> </u>	0	1	2	3	4	0	1	2	3	4
	a)	Help plan a school-based curriculum to facilitate continuity across Kindergarten to Primary One										
	b)	Help plan a school-based curriculum to facilitate continuity across Primary Six to Secondary One										
	c)	Design appropriate learning tasks and activities to help students work towards the learning targets and objectives										
	d)	Design projects in a single Mathematics subject, across the Mathematics or across KLAs to develop students' self-directed learning										
	e)	Promote student learning through reading so as to enhance students' independent learning capabilities										
	f)	Encourage students to read Mathematics reference books, magazines and journals										
	g)	Incorporate civic and moral education into learning activities of this subject or KLA										
	h)	Promote interactive learning through the use of information technology										
	i)	Use effective teaching strategies to cater for learner diversity, e.g., make curriculum adjustment in the learning focus, learning materials, homework, and assessment										
	j)	Use assessment and feedback to enhance learning and teaching										
	k)	Adopt diversified modes of assessment to assess learning process and outcomes										
	1)	Assign diversified homework according to the learning focus										
	m)	Design exercises with empahisis on practicality and cloasely related to daily life situations										

		Confidence Level				Competence Level					
		Low	<		>	High	Low	<		>	High
		0	1	2	3	4	0	1	2	3	4
n)	Provide learning materials as a means for students to acquire the mathematical concepts or master the skills										
0)	Create opportunities for students to learn from experience in real contexts (e.g. field observations, visits, and mathematics activities outside the school)										

7.	Other views and suggestions for this section (Confidence and Competence in Implementing Curriculum Reform):
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Section C Teachers' Professional Development

		Very Inadequate	Inadequate	Adequate	Very Adequate	No Opinion
8.	Opportunities for teachers' professional development in different domains of curriculum development have been provided. To what extent do you find them adequate?					

9.	Below are some ways to promote teachers' professional development in relation to curriculum reform. In your opinion, how effective are they in enhancing your professionalism?	Slightly Effective	Effective	Very Effective	No Opinion
	a) Discussion among colleagues				
	b) Collaborative lesson planning				
	c) Peer observation				

			Not Effective	Slightly Effective	Effective	Very Effective	No Opinion					
	d)	Action research										
	e)	Attending seminars and workshops										
	f)	Attending in-service teacher development courses										
	g)	Independent study										
	h)	Others (Please specify the way and extent of effectiveness	s):									
10. (10. Other views and suggestions for this section (Teachers' Professional Development):											
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Section D Effectiveness of Learning and Teaching Strategies

			n-						
11.	Has your school implemented the following strategies in the learning and teaching of	l II	Implemented, and it is						
	Mathematics? If yes, how effective do you think they are in enhancing student learning?	TYOU YEU	Not Effective	Slightly Effective	Effective	Very Effective	No Opinion		
	 Design learning tasks and activities to help learners work towards the learning targets and objectives 								
	b) Design a school-based curriculum following the direction of the central curriculum framework								
	c) Provide appropriate learning experiences to students as related to the five dimensions of Mathematics learning, development of generic skills, and positive values and attitudes								
	d) Adopt learning and teaching strategies to enhance students' mathematics competence								

				Imp	olemented, and	it is	
		Not yet Implemented	Not Effective	Slightly Effective	Effective	Very Effective	No Opinion
e)	Use effective teaching strategies such as making adjustment to learning focus, learning materials, homework and assessment to cater for learner diversity						
f)	Adopt diversified modes of assessment to provide feedback for improving student learning						
g)	Arrange appropriate assessment tasks to replace parts of tests and examination						
h)	Use a wide variety of quality print and non-print resources						
i)	Incorporate the learning through reading strategy in lesson design to enhance students' independent learning capabilities						
	students independent learning capabilities						

12.	Other views and suggestions for this section (Effectiveness of Learning and Teaching Strategies):

Section E Factors Affecting the Curriculum Reform

13.	To what extent are the following factors helpful in implementing the Mathematics Education curriculum reform in your school?	Slightly Helpful	Helpful	Very Helpful	No Opinion
	a) Students' interest in learning mathematics				
	b) Students' applicability of mathematics				
	c) Parents' understanding on diverse mode of assessment				
	d) Fundamental training in mathematics for more teachers				
	e) Teachers' understanding on students' learning ability				

	Not Helpful	Slightly Helpful	Helpful	Very Helpful	No Opinion
f) More spaces for curriculum adjustment and utilization of "spare time"					
g) More experience sharing on the learning and teaching of mathematics					
·					

14.	affecte	the following factors hindered, helped or not ed the implementation of the Mathematics tion curriculum reform in your school?	Serious	Slight Hindrance	No Effect	Of Some Help	Of Great Help	No Opinion
		nderstanding among teachers about the aims of e curriculum reform						
		pordination among various reforms implemented schools in recent years						
	c) Th	ne pace of curriculum change/reform						
	d) Re	esources (e.g. manpower, funding)						
	e) Le	eadership of the School Head						
	f) At	ttitude of parents						
	g) Te	eachers' workload						
		udents' adjustment to the teaching approaches omoted in the curriculum reform						

15. Other views and suggestions for this section (Factors	s Affecting the Curriculum Reform):

$Section \ F \quad Impact \ of \ the \ Implementation \ of \ the \ Mathematics \ Education \ Curriculum \ Reform$

16.		what extent do the students benefit from the implementation of Mathematics Education curriculum reform in your school?	Not Significant	. <		>	Very Significant
			0	1	2	3	4
	a)	Students' motivation and interest in learning Mathematics are enhanced					
	b)	Students' communication skills are enhanced					
	c)	Students' critical thinking skills are enhanced					
	d)	Students' creativity is enhanced					
	e)	Students' ability in using mathematics to solve problems is enhanced					
	f)	Students' ability to express their views clearly and logically in mathematical language is enhanced					
	g)	Students' ability in using number and symbol is enhanced					
	h)	Students' spatial sense is enriched					
	i)	Students' capability of appreciating the aesthetic nature and cultural aspect of mathematics is enhanced					
	j)	Students' overall capability in mathematics is enhanced					
	k)	Students' positive values and active attitudes are developed					

17.	How far have you benefited in your own professional development from implementing the Mathematics Education curriculum reform in your school?	Not Significan	t <			Very Significant
		0	1	2	3	4
	a) Subject knowledge is enhanced					
	b) Teaching strategies are enhanced					
	c) Knowledge about curriculum development is enhanced					
	d) Skills for developing and evaluating the school-based curriculum are enhanced					
	e) Skills for developing assessment strategies are enhanced					

18.	Other views and suggestions for this section (Impact of the Implementation of the Mathematics Education Curriculum Reform):

Section G Personal Particulars

1. a) Total number of years of to	eaching:			
0-5 years	6 – 10 years	11 – 15 y	15 years or above	
b) Total number of years of teaching in this school:				·
0 –5 years	6 – 10 years	11 – 15 y	ears	15 years or above
c) Total number of years of to	nber of years of teaching in the subject:			
0 –5 years	6-10 years	11 – 15 y	ears	15 years or above
2. Qualifications (multiple option	ons acceptable)			
Teacher's Certificat	e	Advanced Certificate Education	e in Teacher	Bachelor's Degree
Postgraduate Diplor	ma/ Certificate of Ed	Master's Degree		Doctoral Degree
Others(Please speci	fy):			
3. Teacher training (multiple op	tions acceptable)			
Chinese Lang Ed	English Lang Ed	Mathematics Ed	Science Ed	Technology Ed
General Studies	Arts Ed	Physical Ed	Personal, Soci	al & Humanities Ed

Section H Additional Comments

	In your opinion, what additional measures will facililate the implementation of the Mathematics Education curriculum reform?
•	
	In your opinion, what other obstacles will hinder the implementation of the Mathematics Education curriculum reform?
•	
-	With regard to the implementation of the Mathematics Education curriculum reform, what insights would you like to share?
•	Other comments/recommendations:

 \sim End of Questionnaire. Thank you ! \sim