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Nokia Mobile Mathematics Project

North West Province Summary Report - 2012

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1. **Participating schools in the North West Province**

North West Province has 61 schools participating in the project this year. There are three schools who have not yet registered new learners up to date regardless of the interventions made by SchoolNet to motivate them.

The schools are as follows:

Hebron Tech
P. H. Moekets
Potchefstroom Girls

2. **Nokia Mobile Mathematics New Teacher Training**

Background to training

A proposal for the facilitation of training to new Grade 10 and 11 Mathematics teachers in the Nokia Mobile Mathematics Project SchoolNet SA was submitted. A maximum number of two sessions per Province was agreed upon.

To this end, the following training workshops were conducted as follows:

- **Three** training sessions in the **North West Province** (Provincial officials requested an additional session due to the long list of expected teachers and the distance to be travelled by teachers)
- **One** training session in the **Free State Province** and
- **One** training session in the **Eastern Cape Province**.

North West Province – 21 April 2012

Three sessions were conducted in this Province as follows:

1. Potchefstroom Bojanala: Rustenburg Noord

Training Venue & Equipment

The training venue was excellent. There are twenty five (25) computer workstations at the venue. Computers are all networked and they could all access the internet. The school is using an ADSL line and internet connectivity is uncapped. The computer centre is air-conditioned and there was a projector and a printer as well. All educators brought along their cell 'phones.

Participants

A total number of fourteen (14) trainees from six schools, including one EDSC Manager attended the training. The attendance was very poor and disappointing as twenty nine participants were expected. Percentage attendance was therefore 48.2 %.

School	Number of Educators attended
Tlhabane Technical High	03
Malefo High	02
Mothutlung High	03
Micha-Kgasi High	03
Herman - Thebe	01
Batlhalerwa EDSC	01
Total	13

Training was scheduled to start at 08:30 but started almost an hour later because there were very few punctual participants.

Coursework

The participants showed so much interest in the Nokia Mobile Mathematics Project, even being keen to attempt as many exercises as they could on their cell 'phones. Even though they could all log onto the Moodle site as both learners and educators, they were more interested in logging onto Mxit with their cell 'phones because the majority of them do not have access to the internet either at home or at school. Teachers were very excited to see the mathematics topics, theories, examples, practice exercises and tests and were extremely keen to grapple with mathematics problems. There were no disruptive or uninterested participants; all were very receptive, obedient and understanding.

2. Dr. Kenneth Kaunda: Boitshoko Sec. School, Ikageng

Training Venue & Equipment

The computer lab has 21 computers (seven in 1 solution) connected to the internet via a router. The internet got cut off just when teachers were exploring Moodle from the educator view. Fortunately one educator had a laptop with a modem and another one had a tablet. The trainer also had his modem. Teachers were then divided into 3 groups around the available resources and managed to finish exploring Moodle. Educators did bring their 'phones but the majority had Blackberries, which were problematic.

Participants

There were 9 trainees out of the 22 expected from the following schools:

School	Number of Educators attended
Boitshoko	02
Mmokeng	01
Vuyanimawethu	01
Vaal Reefs	01
Klerksdorp	01
Gaenthone	01
Mofatlhosi	01
Education Department Official	01
Total	09

Teachers were excited about the project because most of them had already seen it in action at their schools. They were all co-operative and were even prepared to share their resources for the benefit of the workshop especially when there was the internet problem.

Coursework

Training started at 09:45 because the person responsible for opening the lab arrived late. Teachers had tea while waiting for the lab to be opened. The lunch was cut short by 15 minutes to cover for the time lost.



The training started by giving teachers a brief background of the Nokia Mobile Mathematics project. Thereafter participants were asked to share their experiences as their schools were already taking part in the project. They were extremely excited about the impact of Momaths in their schools. After showing the video, the benefits of the service were discussed. One educator confessed that she had not thought much of Momaths but

had changed her mind after watching the video and hearing testimonies from other participants.

The advice of moving the section on Mxit to the end assisted a lot because most of the participants were using Blackberry phones. Participants experienced the learner view in Moodle, where they created learner accounts and thereafter did exercises ranging from easy to hard and some tests.

They were very excited as they started seeing the benefits of the service and that the content is aligned to the CAPS curriculum. They picked up some weaknesses, for example, the square root was omitted in the teasers when learners are asked to determine between which numbers the square root of 71 lie Educators were concerned that this might be confusing for learners. They also suggested that after the learner has answered the question and got it right, the system should automatically go to the next question without the learner having to click NEXT.

Later, they explored the educator view using the demo school where they were shown how to add a new teacher, class, reset passwords etc. Lastly participants fiddled with the Mxit installation, adding Momaths and login as learners (which they had experienced in learner view in moodle earlier on).

3. Ngaka Modiri Molema: Old Mmabatho High School

Training Venue & Equipment

There were enough computers for the participants, except that some were unable to connect to the internet. For those able to connect, the download speed was low. Some participants brought laptops with modems and found logging onto the MoMaths website easy. There were also a few participants whose modems could not connect to the internet because of poor network coverage.

All participants came with cell 'phones. But most of them, especially the BlackBerries could not download MXit.

Participants

29 teachers were expected to attend the workshop but only 12 of them turned up. The teachers were very cooperative during the training.

School	Number of Educators attended
Letsatsing High	03
Batswana	02
Tswelelopele	02
Ntebogang	03
Motswidi	02
Total	12

Coursework

The workshop started late in the hope that more teachers would arrive. This was not to be. The workshop started by giving teachers a brief overview of the Nokia Mobile Mathematics Project which was followed by a video.



Teachers were able to open the Moodle website where they registered as learners in the Demo Province and in the Demo school. They explored different functionalities and later did some exercises as learners. After lunch teachers explored the educators view again, using Moodle to learn: how to add teachers to their respective schools; how to create classes for the school; and how to place learners in their respective classes. The participants enjoyed this section of the training.

They then switched over to the cell 'phones. Only two cell 'phones could download the right version of MXit. It was frustrating for most of participants because the cell 'phones either could not download MXit or if they did, adding MoMaths became problematic.

School policy issues around the security of cell 'phones going to and from school were discussed. The role of the teacher in ensuring that the use of MoMaths leads to desirable results was also discussed.

Challenges currently experienced in the implementation of the Project were discussed and possible solutions suggested. Participants were motivated to participate in both teacher and school competitions and encourage learners to participate as well. Lastly they were informed about choosing and submitting or confirming Peer Leaders among learners.

Statistics

Seventy six (76) teachers including 12 Education Department District Officials had been trained in the Nokia Mobile Mathematics training this year 2012. These teachers come from 35 participating schools in the project.



Conclusion

Highlights during the training

There were some useful tasks accomplished during training:

- Teachers who attended the training were provided with the school enrolment key
- New teacher accounts were created and they were provided with usernames and passwords to login in to the system during the training
- Teacher contact details were received during the training and updated
- Teachers were encouraged to contact SchoolNet and or District officials to report any problems they may encounter in the project so they can be assisted
- Teachers were encouraged to register new learners in the system and motivate them to use the service
- Teachers were encouraged to give learners take-home activities using Momaths and monitor them the following day
- Teachers were notified about the Momaths Tuesday and encouraged to support the initiative
- Teachers were informed about the Peer Leader Initiative and requested to suggest or confirm Peer Leaders in their schools.

Highlights after the training

Some positive outcomes were:

- Increased numbers of registered learners in the system
- Slightly increased numbers of active learners from the previous term
- Increased two way communication in the number of calls received from teachers
Increased networking through previous teacher-participants sharing what they had learned during the training with educators from other participating schools, who did not attend the training. It is for that reason that SchoolNet is receiving calls from those teachers, who were referred by these trainees.

3. Competitions

Nokia Mobile Mathematics First Competition

The Competition took place on 22 March 2012 for the Grade 10 and 23 March 2012 for the Grade 11 teachers?/or learners?. There was one category due to the technical problems that learners experienced. In grade 10, the total number of 147 learners attempted and/or completed the quiz with 16 learners attaining 100% and then three learners were randomly selected using the Fruit Machine tool. In grade 11, the total number of 146 learners, who attempted or completed the quiz with 23 learners, who

got 100%; and then three learners were randomly selected using the Fruit Machine tool.

Amongst the winners, some came from this Province – North West:

Congratulations to the following winners, who each won a cell phone:

Grade	Name of School	Learner name
10	Itshupeng	Jackson Matswiemang
11	Repholositswe	Hlakotsa Dorothy
	President Mangope	Tema Hebert

Nokia Mobile Mathematics Second competition

The Competition was held on 30 May 2012 for Grade 10 and 31 May 2012 for Grade 11 learners.

The categories were as follows:

- Learner with the Highest Score
- Most Active Learner
- The school with the highest % of learners who completed the competition and highest % of active learners in a school for the period of the competition

The Most Active Learner Category was won by a learner from this Province; congratulations to Seitiso Mpofu from Pinagare High School.

4. School Comparison (*below*)

Below are the North West Schools Comparison Statistics from last year 2011 up to December and this year – May and June Month

no.	School name	2011		May-12			Jun-12		
		Number of enrolled learners	Number of the active learners	Number of enrolled learners2	Number of the active learners2	Number of May 2012 New enrolled	Number of enrolled learners3	Number of the active learners3	Number of June 2012 New enrolled
1	Alfred Maubane	58	32	62	5	4	62	5	4
2	Are-Fadimeng	115	58	124	8	9	129	12	14
3	Batlhaping	289	142	289	15	0	294	26	5
4	Batswana	202	128	333	45	131	365	73	163
5	Bethel	128	74	137	7	9	145	13	17
6	Boikagong	59	45	61	0	2	62	1	3
8	Boitshoko	175	105	176	11	1	177	14	2
9	Eletsa	454	127	464	6	10	465	8	11
10	Ga-Khunwana	66	50	68	2	2	68	2	2
11	Gaenthone	181	79	198	6	17	201	8	20
12	Gaopalelwe	71	54	79	4	8	79	6	8
13	Gatelapele	113	91	228	52	115	233	60	120
14	H. F. Tlou	287	189	511	88	224	551	123	264
15	Hebron Tech	574	215	568	6	-6	569	11	-5
16	Herman Thebe	99	61	164	33	65	175	51	76
17	Holy Family	32	17	44	1	12	47	2	15
18	Ikageleng	133	73	274	64	141	275	64	142
19	Ipelegeng	58	26	60	2	2	65	5	7

20	Itshupeng	166	125	331	124	165	354	145	188
21	J.M. Ntsime	342	263	365	23	23	373	30	31
22	Kgamanyane	30	20	48	10	18	51	13	21
23	Kgosietsile Lethola	135	69	160	13	25	160	14	25
24	Klerksdorp	78	41	90	4	12	103	7	25
25	Letsatsing	339	224	351	25	12	656	157	317
26	Malatse Motsepe	182	86	364	47	182	377	66	195
27	Malefo			178	55	178	224	107	224
28	Micha-Kgasi	135	81	140	18	5	140	18	5
29	Milner	85	64	87	0	2	87	3	2
30	Mmabatho	198	95	202	6	4	202	6	4
31	Mmankala	422	218	437	10	15	449	21	27
32	Mmokeng	74	53	97	16	23	126	33	52
33	Mofatlhosi	137	49	222	58	85	247	89	110
34	Mothotlung	158	86	197	26	39	210	40	52
35	Motswedi	188	128	309	55	121	327	74	139
36	Mphe-Bana	49	39	93	29	44	100	36	51
37	Ntebogang	18	11	398	75	380	411	112	393
38	P. H. Moekets	35	24	35	0	0	35	1	0
39	Pinagare	138	82	143	16	5	234	62	96
40	Potchefstroom Boys	58	20	59	0	1	59	0	1
41	Potchefstroom Girls	86	75	86	0	0	86	1	0
42	President	604	354	994	214	390	1055	251	451

	Mangope								
43	Rakoko	70	32	75	2	5	76	4	6
44	Ramotshere	314	186	339	26	25	348	37	34
45	Realeka	121	48	195	41	74	195	41	74
46	Regolotswe	188	95	197	11	9	197	14	9
47	Sekete	92	47	99	5	7	99	8	7
48	Setswakgosing	45	33	47	3	2	49	5	4
49	Sewagodimo	59	34	64	7	5	68	9	9
50	Sol Plaatje	79	55	80	2	1	80	3	1
51	St Anne's	88	58	93	6	5	93	9	5
52	Tiger Kloof	48	24	84	20	36	108	43	60
53	Tlhabane	309	149	397	35	88	415	48	106
54	Tshebedisano	32	20	34	1	2	34	2	2
55	Tshedimosetso	62	35	70	3	8	109	26	47
56	Tsogo	268	124	307	13	39	315	19	47
57	Tswelelopele	93	67	394	156	301	417	184	324
	Vaal Reefs								
58	Technical	215	123	296	32	81	390	67	175
59	Vuyanimawethu	303	130	545	42	242	553	46	250
	Zeerust								
60	Combined	94	38	143	18	49	155	25	61
61	Boitsenape						67	10	67
		9298	5128	12752	1610	3454	1379	2370	4498

The statistics above show some improvements in a number of new learners registered compared to both last year 2011 and the previous month, May 2012. The cells highlighted in yellow show the increase in the number of learners registered this year up to May compared to last year; whereas the cells highlighted in green show the increase in the number of new learners up to

date compared to last month, May 2012. This is very motivating, although getting learners active in the system is still a challenge.

5. List of 20 most active schools in the North West Province

The schools below have been active since January 2012 up to date:

No.	Name of School	%
1	Malefo	48
2	Tswelelopele	44
3	Itshupeng	41
4	Tiger Kloof	40
5	Mofatlhosi	36
6	Mphe-Bana	36
7	Herman Thebe	29
8	Ntebogang	27
9	Gatelapele	26
10	Mmokeng	26
11	Pinagare	26
12	Kgamanyane	25
13	Letsatsing	24
14	President Mangope	24
15	Tshedimosetso	24
16	Ikageleng	23
17	Motswedi	23
18	H.F. Tlou	22
19	Realeka	21
20	Batswana	20

6. Conclusion

This is positive feedback for the North West Province and it is hoped that the above numbers will continue to improve in the next term, as all stakeholders work together to make the project a success.