

Dinaledi Schools

Presentation to Portfolio Committee
09 May 2012



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BACKGROUND

- In 2001 government launched the National Mathematics, Science and Technology Education (NMSTE) Strategy to address and improve the performance in mathematics and science outputs
- The Strategy was focused at improving the quality of teaching and learning in mathematics and science, and increasing number and quality of learner passes in maths and science at Grade 12 level
- In 2005, government re-affirmed the commitment to the NMSTE strategy and set the system a target of doubling learner performance in HG mathematics and science to 50 000 by 2008
- The Dinaledi School Project was also established to give targeted support to raising the participation and performance especially of black learners and girl learners in these subjects in selected schools



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STRATEGIC OBJECTIVES OF THE NATIONAL STRATEGY FOR MATHEMATICS, SCIENCE AND TECHNOLOGY EDUCATION

1. Set performance targets in all schools
2. In every classroom a qualified and competent teacher
3. Improving the language of teaching and learning (LOLT)
4. Identifying and nurturing talent and potential
5. Co-operation with the Department of Science and Technology - NSW, camps, etc.
6. Partnerships with relevant stakeholders - resources and technical support
7. Evaluation and monitoring of MST in provinces
8. Introduce ICTs in all schools



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DINALEDI SCHOOL PROJECT

Province	Number of schools			
	2001-2004	2006	2007	2008
Eastern Cape	15	60	60	60
Free State	6	30	35	36
Gauteng	11	70	101	101
KwaZulu-Natal	23	70	84	88
Limpopo	23	50	51	51
Mpumalanga	7	30	44	46
North West	7	40	51	53
Northern Cape	4	10	17	17
Western Cape	6	40	45	48
TOTAL	102	400 (77)	488 (371)	500 (478)



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OBJECTIVES OF THE DINALEDI SCHOOL PROJECT

- The Dinaledi schools are intended to raise the participation and performance by historically disadvantaged learners in SC mathematics and physical science
- The project is designed to provide a cost-effective way of channeling scarce resources in the context of competing priorities
- The project is a short term approach to provide adequate learning and teaching facilities to selected schools with potential to address the objectives of the MST Strategy



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Total Number of learners writing and passing Mathematics in Dinaledi schools – 2011 NSC

Province Name	Total Wrote	Pass0-10%	Pass10-20%	Pass20-30%	Pass30-39%	Pass40-49%	Pass50-59%	Pass60-69%	Pass70-79%	Pass80-100%	Total Pass	% Pass
EASTERN CAPE	8053	641	1520	1288	1047	707	383	240	128	101	2606	43%
FREE STATE	2538	68	388	551	608	394	242	143	103	63	1551	61%
GAUTENG	8472	428	1392	1477	1476	1200	1002	747	436	314	6175	61%
KWAZULU-NATAL	8936	822	2080	1787	1553	1035	670	455	322	212	4247	48%
LIMPOPO	4789	239	832	781	883	735	525	364	231	199	2937	61%
MPUMALANGA	3646	304	678	722	655	516	343	207	146	75	1942	53%
NORTH WEST	3519	114	613	728	788	507	321	228	139	83	2064	59%
NORTHERN CAPE	1008	89	219	210	210	103	78	45	31	23	490	49%
WESTERN CAPE	3122	126	524	607	573	477	330	218	183	104	1885	60%
Total	42083	2831	8226	8149	7791	5674	3894	2645	1699	1174	22877	54%



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2009 to 2011 comparison of learners enrolling and passing Mathematics at 50% and above in Dinaledi schools vs national

Prov	2009					2010					2011				
	Total Number Who Wrote	Number passing >=50%	Total Wrote	Number passing >=50%	Dinaledi passes as % of total passing	Total Number Who Wrote	Number passing >=50%	Total Wrote	Number passing >=50%	Dinaledi passes as % of total passing	Total Number Who Wrote	Number passing >=50%	Total Wrote	Number passing >=50%	Dinaledi passes as % of total passing
	(992)	(992)	Dinaledi	Dinaledi		(992)	(992)	Dinaledi	Dinaledi		(992)	(992)	Dinaledi	Dinaledi	
EC	43251	4933	5680	969	20%	38801	4432	6682	1744	39%	38 067	4 150	6053	852	21%
FS	13258	2852	2755	602	23%	11003	2099	2662	872	42%	10 001	2 065	2538	551	26%
GP	47365	12784	12071	3195	25%	40024	11603	10052	3543	36%	32 865	10 053	8472	2489	25%
KZN	74215	11740	10403	2547	22%	65973	11281	8758	3262	29%	61 483	7 867	8936	1659	21%
LP	50342	6758	5494	1659	25%	49192	6684	6045	2117	32%	35 118	5 448	4789	1319	24%
MP	24860	3471	3946	753	22%	24107	3784	3913	1123	30%	19 809	3 549	3046	771	22%
NW	13886	2898	4003	1190	41%	12705	2609	4334	1546	57%	9 818	2 042	3519	789	28%
NC	4020	604	1221	144	24%	3627	784	1172	379	50%	3 280	631	1008	177	28%
WC	19210	6009	4748	1134	16%	17544	5569	4164	1415	22%	14 304	5 763	3122	815	14%
Total	290407	52779	50221	12213	23%	259034	50195	47780	16001	32%	224 635	41 586	42083	9412	23%



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The number of learners enrolling and passing Physical Sciences in Dinaledi schools - 2011 NSC

Province	Total Wrote	Achieve 0-9.9%	Achieve 10-19.9%	Achieve 20-29.9%	Achieve 30-39.9%	Achieve 40-49.9%	Achieve 50-59.9%	Achieve 60-69.9%	Achieve 70-79.9%	Achieve 80-89.9%	Achieve 90-100%	Total Pass	% Pass
EASTERN CAPE	26 367	683	6 293	6 687	5 860	3 079	1 783	952	568	330	124	12 696	48%
FREE STATE	9 901	115	1 788	2 314	2 216	1 414	846	556	337	213	102	5 684	57%
GAUTENG	28 605	338	5 222	5 536	5 365	3 814	2 947	2 237	1 652	1 071	421	17 507	61%
KWAZULU-NATAL	45 340	599	8 870	11 391	10 503	6 169	3 553	2 030	1 189	702	331	24 477	54%
LIMPOPO	30 874	363	6 365	7 429	7 145	4 370	2 513	1 409	770	369	141	16 717	54%
MPUMALANGA	17 280	315	3 719	3 959	3 540	2 264	1 552	950	592	301	88	9 287	54%
NORTH WEST	8 624	95	1 495	1 985	1 945	1 244	767	518	318	188	69	5 049	59%
NORTHERN CAPE	2 667	56	694	710	471	283	186	129	70	55	13	1 207	45%
WESTERN CAPE	10 927	149	1 763	1 750	1 716	1 385	1 119	1 009	904	740	392	7 265	66%
TOTAL	169 658	2 564	34 446	40 013	37 045	22 637	14 147	8 781	5 496	3 229	1 289	92 624	55%



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Comparison between 2009 to 2011 of the total learners enrolling and passing Physical Science at 50% and above in Dinaledi schools vs national

Prov	2009					2010					2011				
	Total Number Who Wrote	Number passing >=50%	Total Wrote	Number passing >=50%	Dinaledi passes as % of total passing	Total Number Who Wrote	Number passing >=50%	Total Wrote	Number passing >=50%	Dinaledi passes as % of total passing	Total Number Who Wrote	Number passing >=50%	Total Wrote	Number passing >=50%	Dinaledi passes as % of total passing
	(Nat)	(Nat)	Dinaledi	Dinaledi		(Nat)	(Nat)	Dinaledi	Dinaledi		(Nat)	(Nat)	Dinaledi	Dinaledi	
EC	30121	1875	4042	281	17%	27163	3348	4181	1405	42%	28 367	3 757	4325	808	22%
FS	12040	1221	2374	276	23%	10592	1781	2273	789	43%	9 001	2 054	2224	546	27%
GP	39554	6561	8753	1383	25%	33763	8849	8125	3006	34%	28 605	8 328	7255	2075	25%
KZN	50470	5114	7447	1153	23%	47323	8545	6920	2624	31%	45 340	7 805	6624	1573	20%
LP	36469	2686	4201	798	30%	39523	5410	4370	1755	32%	30 874	5 202	3684	1286	25%
MP	20666	1362	3465	288	20%	20159	2692	3219	1014	34%	17 280	3 483	3028	755	22%
NW	12140	1255	4004	500	40%	11270	2068	3669	1306	62%	8 624	1 660	2948	684	37%
NC	3103	278	997	49	18%	2965	516	973	280	54%	2 667	453	797	115	25%
WC	13349	3110	3102	480	15%	12626	4514	2951	1058	25%	10 927	4 184	2518	712	17%
Total	220382	22262	39445	6188	23%	205364	37853	36861	13217	35%	169 658	32 942	33401	8554	26%



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Implementation of the Dinaledi schools Conditional Grant



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2011 Dinaledi Schools Conditional Grant

- The Dinaledi schools project has been granted R70 million in 2011/12, R100 million in 2012/13 and R105 million 2013/14 to improve the participation and performance of learners in Mathematics and Physical Science in line with the National Strategy for Mathematics, Science and Technology Education (NSMSTE).
- The purpose of the conditional grant is to promote Mathematics and Physical Science teaching and learning, improve learner performance in Mathematics and Physical Science in line with the Action Plan 2014 and also improve teacher's content knowledge of Mathematics and Physical Science.



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Provincial allocation of Funds

Province	2011/12 Allocation
Eastern Cape	8 400
Free State	5 040
Gauteng	14 140
KwaZulu-Natal	12 320
Limpopo	7 140
Mpumalanga	6 440
Northern Cape	2 380
North West	7 420
Western Cape	6 720
TOTAL	70 000



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Provincial transfers and expenditure as at March 2012

Province	Total transfers as at Jan 2012 R'000	Actual Spending as at End Mar 2012 R'000	Balance R'000	% Spent of transfers	% Spent per total
EASTERN CAPE	8 400	8 396	4	99.95%	99.95%
FREE STATE	5 040	4 816	224	95.56%	95.56%
GAUTENG	14 140	14 140	0	100.00%	100.00%
KWAZULU-NATAL	12 320	13 543	-1 223	109.93%	109.93%
LIMPOPO	4 998	607	6 533	12.14%	8.50%
MPUMALANGA	6 440	5 696	744	88.45%	88.45%
NORTHERN CAPE	2 380	2 379	1	99.96%	99.96%
NORTH WEST	7 420	6 584	878	88.17%	88.17%
WESTERN CAPE	6 720	317	37	37%	99.45%
TOTAL	67 858	62 802	7 198	92.55%	89.72%



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The grant is intended to do the following

- Address textbook shortages by ensuring that each learner in Grades 8, 9, 10, 11 and 12 have 7 textbooks.
- Provide Mobile Science laboratories to 300 Dinaledi schools that do not have access to laboratories.
- Provide Mathematics kits for 500 Dinaledi schools.
- Provide 300 ICT laboratories in Dinaledi schools.
- Install televisions to receive educational TV Broadcasts and solutions to 500 Dinaledi schools
- Provide 50 computers in each of the 500 schools.
- Provide Mathematics, Physical Science and English FAL teaching and learning software to 500 Dinaledi Schools.
- Train 2 000 teachers on content knowledge in mathematics, physical science and English First Additional Language.
- Distribute a diagnostic tool to assess, measure and address learning and teaching deficiencies in mathematics, physical science and English First Additional Language to 500 Dinaledi Schools.
- Develop capacity of principals in 90 Dinaledi schools that achieved below 60% pass rate in the 2010 National Senior Certificate examinations.
- Train and support Grade 8, 9 and 10 learners in 500 Dinaledi schools to participate in mathematics and science Olympiads



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Provincial allocations for the current financial year 2012/13 financial year

Vote	Name of allocation	Province	2012/13 Allocation	1st Tranche	2nd Tranche	3rd Tranche	4th Tranche
				Apr – Jun 2012	Jul – Sept 2012	Oct – Dec 2012	Jan – Mar 2013
(Vote 15)	Dinaledi Schools Grant	Eastern Cape	11 964	3 589	3 589	2 393	2 393
		Free State	7 179	2 154	2 154	1 436	1 435
		Gauteng	20 139	6 042	6 042	4 028	4 027
		KwaZulu-Natal	17 547	5 264	5 264	3 510	3 509
		Limpopo	10 169	3 051	3 051	2 034	2 033
		Mpumalanga	9 172	2 752	2 752	1 834	1 834
		Northern Cape	3 391	1 017	1 017	679	678
		North West	10 568	3 170	3 170	2 114	2 114
		Western Cape	9 571	2 871	2 871	1 915	1 914
		TOTAL	99 700	29 910	29 910	19 940	19 940



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Assessment of Department of Basic Education monitoring capacity

The Dinaledi schools grant is managed by four (4) officials at national level who are appointed as Assistant Directors x 2 and Admin Clerks x 2. At the provincial level there is no official appointed to manage the grant and its activities instead curriculum specialists at least two (2) per province who are responsible for Mathematics and or Science are there ones who coordinate the grant related activities. The latter has generally had a negative impact of under spending in seven (7) out of nine (9) provinces. There is a need for the appointment of a project manager in each province.



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Challenges

- Lack of Human resource at both National and provincial level
- Procurement processes in provinces



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