

NSW8 IMPLEMENTATION PROGRAMME FOR THE FOCUS WEEK

Eastern Cape					
DATE	VENUE	DESCRIPTION OF ACTIVITIES	TARGET AUDIENCE	ENQUIRIES	BOOKING REQUIRED
10 May	Butterworth (WSU)	Career day <ul style="list-style-type: none"> • FET career options • Electronic Media opportunities • SET related careers in the Engineering Faculty at WSU • Career as SET teacher 	Grade 10 -12 learners and teachers, parents, politicians and business community	Mr. A. Bangani 073 885 3635	Yes
	Mdantsane Rubusana (DoE-EL)	5 Km Fun Run		Video Dept of Sport Rubusana 043 7613440	no
	Sci-Fest	Careers Open Day	Learners and Community Educators, Grade 11 &12	Sanda Mankayi 046 603 1106	
	Lusikisiki DoE offices	Young role models and exhibits by HEI's, National Research Facilities, Government and industry will ensure that SET careers are promoted with particular focus on careers in the aquatic sciences. Speakers will also be invited to address parents and learners on funding their studies, choosing appropriate careers, etc. Two learners from the Bright Sparks Programme will attend the Careers Day and share their experiences with learners. The Careers Day will be advertised through paid advertorials, press releases and through the DoE.	Learners, Parents	Gaji Magajana	no
	SAIAB Lusikisiki College				

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DATE	VENUE	DESCRIPTION OF ACTIVITIES	TARGET AUDIENCE	ENQUIRIES	BOOKING REQUIRED
	Cradock district(NMMU)	Science exposure road-show	Grade 8, 9 and 12 learners and educators	n/a	No
	(UFH, HEI) Fort Hare Institute of Technology	Renewable Energy and Material Science Presentation Sustainable use of natural resources to enhance the quality of life. Resource management also teaches sustainably utilization of natural resources (from the sea to the mountain tops) for food, recreation and generating income. departments for practical demonstrations and public lecture	Grades 5 to 7 & Educators	T. Nkukwana, E. Gezane, V. Ndzipha N. Mkhwetshana	yes
	Geographic Information Systems (GIS), Geography, Geology	Public Lecture: Earth and Planet Sciences; Remote Sensing; Climate change and Global Warming	Grades 5 to 7 learners, Educators and general public		
	Sports Complex, UFH	Poster and Project Presentations	Grades 5 to 7 & Educators	041 - 581 8722	Yes
	Bonani	Educator workshop			

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DATE	VENUE	DESCRIPTION OF ACTIVITIES	TARGET AUDIENCE	ENQUIRIES	BOOKING REQUIRED
		Science of making Umqombothi and amarhewu Discovering Polymers			
		Science Show			
		Science of making Umqombothi and amarhewu Discovering Polymers	Grade 11 Learners	Gaji Magajana	
	SAI AB Lusikisiki College	Workshop: Fish Population Dynamics			
	Graaff Reinet, King William's Town, Libode, East London	This workshop will cover aspects of population dynamics including population growth estimation, population fluctuation, and limiting factors. The aquatic environment will be used as content for the workshops. Learners will also be introduced to different techniques used to measure population growth from fish tagging to more advanced technological techniques like telemetry used by scientists in studying fish movements and their behaviour in natural environments	Grade 10-12 Learners Grade 10 learners Max no. of learners: 40		
	SAEON	Workshop: Untangling the nutrient cycle on the rocky shore ecosystems	Grade 11learners Max no. of learners: 40		We will specifically invite 20 local schools (4 per day for 5-days) to attend educational workshops
		Workshop: Interactions and interconnections of marine food chains and food webs (Biotic and Abiotic factors)			

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DATE	VENUE	DESCRIPTION OF ACTIVITIES	TARGET AUDIENCE	ENQUIRIES	BOOKING REQUIRED
	(DoE-EL)	<ul style="list-style-type: none"> Illustration on how power is generated from a mechanical engine. The role of generators in industry and rural areas. Demonstration on modern roof structure design. Effects of nature on roof design. IT, its applications and how they affect daily life. How IT can improve the quality of education and learning (especially for rural schools) with the use of software Role of maths and science in developing and advancing the various fields of science. How these can improve ability to learn. Traditional way of building houses vs modern technologies. 	teachers, general public		
	<ul style="list-style-type: none"> Physica Science Lab. Biology Lab Large Hall Big tent Computer Lab 	<ul style="list-style-type: none"> Fort-hare University Learner workshop on Wonders on the world of Science Walter Sisulu University Analytical Chemistry Exhibition by various publishers and Buffalo City Public FET Interactive Sifunda Sidlala Hill-top Computers 	100 Learners Senior Phase Grade 12 learners 100 Community & learners 500 All learners 200 All FET 100		
	Cradock district(NMMU)	Science exposure road-show	Grade 8, 9 and 12 learners and educators	n/a	no

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	(UFH, HEI) School of Agriculture	Agribusiness & Agricultural Sciences - applying science to conversion of natural resources to material usable by human beings	Grades 5 to 7 learners, Educators and general public	T. Nkukwana, E. Gezane, V. Ndzipha N. Mkhwetshana	Yes
	Physics, Chemistry, Mathematics and Statistics Depts.	Learning and Studying Mathematics and Science: this is meant to make learners aware of the opportunities available to them with these subjects	Grades 5 to 7 & Educators		
	Sports Complex, UFH	Poster and Project Presentations	Grades 5 to 7 & Educators	041 - 581 8722	
	Bonani		<ul style="list-style-type: none"> Grade 1 Educators 		yes
	<ul style="list-style-type: none"> Bukani Primary School Coega Primary School Coega Primary School 	Domestic animals: chickens			no
		The workshop will ensure a balance between facilitation and educator participation. Facilitation techniques such as group work, mini presentations by participants all set around group determined norms and values	<ul style="list-style-type: none"> Grade 4 - 7 Parents 	T. Moss	
		Outcome will be that each participant has an interest and commitment to make use of their newly acquired resources in the classroom and promote science, engineering and technology in their classrooms.			
		Maths, Science and IKS			
		Soils: uses and properties			
		Learners will have a clearer understanding of the value of soil in their culture together with skills			

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		<p>development linked to science, mathematics and problem solving Parent Information Session</p> <p>What are we doing in their schools during NSW?</p> <p>Short presentation on NSW activities, and parents can view learner work</p>	<ul style="list-style-type: none"> Grade 4 – 7 learners 		
	Sci-Fest(Venue to be confirmed)	Programme repeats			
	SAI AB Lusikisiki College	<p>As on the 12th May plus the following</p> <p>I KS game: Aquatic Biodiversity Picture game</p>	Grade 7-9, Grade 10-12	Gaji Magajana	yes
		<p>This is a picture game with a set of questions that may be asked randomly. The questions focus on various indigenous uses and practices by people relating to marine resources; aquatic ecosystems; animal names and general biology of aquatic animals.</p>			Invitation
		<p>The game is played by two competing groups (schools) following instructions provided. A winner is</p>	Grade 10		

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	SAEON	<p>determined by a scoring system and the school that gets most points wins at the end. Prizes will be awarded to winning schools.</p> <p>Workshop: Untangling the nutrient cycle on the rocky shore ecosystems</p> <p>Workshop: Interactions and interconnections of marine food chains and food webs (Biotic and Abiotic factors))</p>	<p>learners</p> <p>Max no. of learners: 40</p> <p>Grade 10 learners</p> <p>Max no. of learners: 4</p>		
	Straits Bayworld Lusikisiki College of Education	Programee repeats for the whole week	<p>Grade 11 Learners</p> <p>Grade 7-9, Grade 10-12</p> <p>Grade 10-12 Learners</p> <p>Grade 10 learners</p> <p>Max no. of</p>		

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			learners: 40		
			Grade 11 learners		
			Max no. of learners: 40		
14 May	Mthatha (WSU)	<ul style="list-style-type: none"> How electricity is generated and distributed. Learners will build simple circuits. Illustration on how power is generated from a mechanical engine. The role of generators in industry and rural areas. Demonstration on modern roof structure design. Effects of nature on roof design. IT, its applications and how they affect daily life. How IT can improve the quality of education and learning (especially for rural schools) with the use of software Role of maths and science in developing and advancing the various fields of science. How these can improve ability to learn. Traditional way of building houses vs modern technologies. 	Grade 10 -12 learners and teachers, general public	Mr. A. Bangani 073 885 3635	Yes
	(DoE-EL)		All phases all grades		
	<ul style="list-style-type: none"> Small Tent Medium Tent Physica Science Lab. Biology Lab Large Hall Big tent Computer Lab 	<ul style="list-style-type: none"> Quiz Competitions all Phase Bridge Building Competitions and Poster Displays Fort-hare University Learner workshop on Wonders on the world of Science 	All phases all Grades Fort-hare University Learner workshop on Wonders on the world of Science		

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DATE	VENUE	DESCRIPTION OF ACTIVITIES	TARGET AUDIENCE	ENQUIRIES	BOOKING REQUIRED
		<ul style="list-style-type: none"> ▪ Walter Sisulu University ▪ Analytical Chemistry ▪ Exhibition by various publishers and Buffalo City Public FET ▪ Interactive Sifunda Sidlala ▪ Hill-top Computers 	Walter Sisulu University Analytical Chemistry Exhibition by various publishers and Buffalo City Public FET Interactive Sifunda Sidlala Hill-top Computers		
	Graaff-Reinet district (NMMU)		Grade 8, 9 and 12 learners and educators	n/a	No
	(UFH, HEI)		Grades 5 to 7 learners and Educators	T. Nkukwana, E. Gezane, V. Ndzipha N.Mkhwetshana	yes
	Bonani	Science exposure road-show			
	<ul style="list-style-type: none"> ▪ Missionvale Schools (to be confirmed) ▪ NMMU Missionvale 	Excursion to Alice Water and Waste Water Treatment Plant - importance of clean drinking water	<ul style="list-style-type: none"> ▪ Grade 6 & 7 learners ▪ Grade 6 - 	041 - 581 8722	yes

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	campus		7 Parents		no
	Sci-Fest(Venue to be confirmed)	The programme repeats from 13 th May			
	SAIAB Lusikisiki College	Workshop: River Water Quality Monitoring (SAIAB & SAEON Elwandle node) Educators will be engaged in activities including measuring water temperature, pH, tests for nitrites and nitrates, dissolved oxygen, coliform bacteria in the water samples etc. Educators will be taught how to use macro invertebrates as bio-indicators of the level of water pollution using tools like the mini SASS score sheet and the water quality slide.	Grade 7-9 Educators	Gaji Magajana & Dumile Tshingana	Yes
	SAEON	Workshop: Untangling the nutrient cycle on the rocky shore ecosystems	Grade 10 learners Max no. of learners: 40	Gaji Magajana	yes

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	(NMMU)	Science exposure road-show	educators		
	(UFH, HEI) Botany Dept.	Phytomedicine for human and animal medicines: Ethnobotany and Phytomedicine are exciting subjects that teach learners how to obtain medicine from plants and how to conserve the plants so that others will also be able to benefit from them in years to come.	Grades 5 to 7 learners and Educators	T. Nkukwana, E. Gezane, V. Ndzipha N.Mkhwetshana	yes
	Nursing Sciences, Microbiology and Biochemistry Depts.	Studying Health Sciences and Awareness on health issues; Application of Biotechnology in life situations (demonstration)	Grades 5 to 7 learners and Educators		
	Depts. of Computer science & Information Systems	Outstanding posters and projects by learners will be presented parallel to the other activities.	Grades 5 to 7 learners and Educators		
	Sports Complex, UFH	Communication Technology and Computer Literacy – Use of information and information technology in organizations and society.	Grades 5 to 7 & Educators		
	Bonani <ul style="list-style-type: none"> ▪ Bukani Primary School ▪ Addo Community Centre 	Poster and Project Presentations	<ul style="list-style-type: none"> ▪ Grade 1 learners ▪ Grade 1 Parents 	041 – 581 8722	Yes
	Sci-Fest(Venue to be confirmed)				no

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		<p>these can improve ability to learn.</p> <ul style="list-style-type: none"> Traditional way of building houses vs modern technologies. 			
	<ul style="list-style-type: none"> Large Hall Big Tent Medium Tent Small Tent 	<p>Street Theatre & Poetry reading</p> <p>Exhibition by various publishers and Buffalo City Public FET</p>			
		Interactive Sifunda Sidlala			
	Uitenhage district		Grade 8, 9 and 12 learners and educators	n/a	no
	UFH Sports Complex, (UFH, HEI)	Science exposure road-show	DoE, Grades 5 to 7, Educators and general public	T. Nkukwana, E. Gezane, V. Ndzipha N.Mkhwetshana	yes
	Bonani	Closing ceremony; and presentations by Mathematics and Nursing Departments.			
	<ul style="list-style-type: none"> Addo Primary School Mhlophekazi Primary School Mhlophekazi Primary School Sunlands Primary School 	<ul style="list-style-type: none"> Learner workshops (2 learner workshops) Learner workshops (1 learner workshop) Parent Information Session Learner workshops (1 learner workshop) 	<ul style="list-style-type: none"> Grade 1 learners Grade 1 learners Grade 1 Parents Grade 1 learners Grade 1 Parents Grade 1 learners Grade 1 	041 – 581 8722	<ul style="list-style-type: none"> Yes Yes No Yes No
	<ul style="list-style-type: none"> Sunlands Primary School 	<ul style="list-style-type: none"> Learner workshops (1 learner workshop) 	<ul style="list-style-type: none"> Grade 1 		No

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	<ul style="list-style-type: none"> St Ignatius Primary School Imiti Farm School 	<ul style="list-style-type: none"> Parent Information Session Learner workshops (2 learner workshops) Learner workshops (1 learner workshops) 	learners		Yes
	Sci-Fest(Venue to be confirmed)	Programme repeats	Grade 10 learners		yes
	SAI AB Lusikisiki College	Workshop (SAEON Elwandle Node Proposal) 09h45-11h15 & 12h45-14h15	Max no. of learners: 40		
	Graaff Reinet, King William's Town, Libode, East London	Workshops (Bayworld Proposal) 09h45-11h15 & 12h45-14h15	Grade 8 learners		
		2 x Workshops(BCRE Proposal) 09h45-11h15 & 12h45-14h15	Max no. of learners: 40		
		Workshop: Fish Population Dynamics			
		Launch New Science Clubs			
	SAEON	Workshop: Interactions and interconnections of marine food chains and food webs (Biotic and Abiotic factors)	Grade 11 Learners	Gaji Magajana	yes
			Grade 10-12 Learners		
					Invitation

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		Workshop: Untangling the nutrient cycle on the rocky shore ecosystems	Grade 10 learners Max no. of learners: 40		
	Straits, Bayworld Lusikisiki College of Education	The programme repeats for the whole week	Grade 11 learners Max no. of learners: 40		
17 May	Butterworth (WSU)	<ul style="list-style-type: none"> ▪ How electricity is generated and distributed. Learners will build simple circuits. ▪ Illustration on how power is generated from a mechanical engine. The role of generators in industry and rural areas. ▪ Demonstration on modern roof structure design. Effects of nature on roof design. ▪ IT, its applications and how they affect daily life. How IT can improve the quality of education and learning (especially for rural schools) with the use of software ▪ Role of maths and science in developing and advancing the various fields of science. How these can improve ability to learn. ▪ Traditional way of building houses vs modern technologies. 	Grade 10 -12 learners and teachers, general public	Mr. A. Bangani 073 885 3635	Yes

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DATE	VENUE	DESCRIPTION OF ACTIVITIES	TARGET AUDIENCE	ENQUIRIES	BOOKING REQUIRED
	Bonani Arena, NMMU Indoor Sports Centre, Mlissingvale Campus	Open Fun Day Science Shows, display by invited organisations, short presentations and closure of NSW with an encouragement to further and develop their newfound knowledge in SET	Grade 6 - 7 Learners and their parents, educators, staff of NMMU and councillors from the Metro	041 - 581 8722	no
	Straits, Bayworld Lusikisiki College of Education	The programme repeats for the whole week			