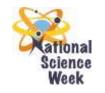




NATIONAL SCIENCE WEEK



29 July 5 August 2023

National Science Week Programme of Activities:

Organisation Host:	Y	ixpo For Young Scientists	Organize	Organizer's Name			ahate	Province/s:	Eastern Cape Province
District/s Nelson Mandela Bay Metropolitan Municipality		Sarah Baa	Sarah Baartman District Municipality						
Connect wi	Connect with us Website:			https://exposcience.co.za/			https://	/twitter.com/Exp	oscience
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		E-mail:	fredy@ex	kposcience.co	.za				
DATE	TIME	VENUE	LOCATION	NAME OF THE ACTIVITY	DESCRIPTION OF ACTIVITY	ONLINE LINK e.g. Zoom registration link/YouTube link			n link/YouTube link
03/08/2023 & 04/08/2023	12h00- 17h00	Indoor Sports Centre, Nelson Mandela University -	Old Uitenhage Rd, Salt Pan, Bethelsdorp, 6059	Eskom Expo for Young Scientists, Regional Expo	Eskom Expo Regional Science Fair provides learners with the opportunity to demonstrate evidence-based	N/A			

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		Missionvale			science by	
		Campus			presenting their	
					own scientific	
					investigations and	
					engineering	
					projects. The	
					regional fair	
					attracts learners	
					from various	
					municipal districts	
					who come to	
					compete on this	
					platform. The	
					stage offers the	
					opportunity to	
					showcase the	
					practical side of	
					evidence-based	
					science and how it	
					can be used as a	
					tool for research,	
					innovation and	
					problem solving.	
					In this activity, the	
					Port Elizabeth	
					Regional Expo,	
					scheduled for the	
					3rd and 4th of	
					August will be	
					opened to other	

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					visiting schools. A	
					total of 200	
					additional learners	
					from 10	
					surrounding	
					schools will be	
					invited to	
					participate in a	
					specially designed	
					3-hour science day	
					programme at the	
					Regional Fair. The	
					first part of the	
					programme will be	
					a science show	
					that will be run by	
					Dr Gletwyn	
					Rubidge from the	
					Chemistry	
					Department,	
					Nelson Mandela	
					University. The	
					science show	
					serves to inspire	
					and promote the	
					awareness and	
					understanding of	
					STEMI as fun and	
					an interactive field	
					of study.	

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					The second part of	
					the programme	
					will include a	
					guided walk	
					around the Eskom	
					Expo projects, as	
					presented by	
					competing	
					learners. Visiting	
					schools and their	
					educators will be	
					exposed to	
					practical project	
					work by Expo	
					learners who will	
					communicate their	
					project work,	
					demonstrating	
					how various	
					research tools can	
					be used to come	
					up with evidence-	
					based solutions to	
					our daily	
					challenges. With	
					an increased	
					energy crisis, most	
					learners have	
					focused their	
					research in the	

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					energy sector,	
					where they either	
					come up with	
					alternative energy	
					sources or	
					investigate ways to	
					maximise and/or	
					reduce electricity	
					use for	
					sustainability. In	
					this way, the	
					activity will	
					address both the	
					main theme of	
					NSW and the first	
					sub-theme. Visiting	
					learners will be	
					given a worksheet	
					designed to shape	
					and test their	
					understanding of	
					evidence-based	
					science and how	
					Expo for Young	
					Scientists projects	
					use this concept	
					when coming up	
					with solutions for a	
					range of	
					challenges. These	

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					learners will be	
					asked to identify	
					an energy-related	
					project and answer	
					questions based on	
					the research e.g.	
					What was the	
					problem/challenge	
					being addressed?	
					How was the data	
					collected? What	
					solution/s did the	
					Expo learner come	
					up with? How will	
					this solution	
					address the energy	
					crisis?	
					The activity will be	
					a face to face	
					interaction and will	
					take place at the	
					indoor Sports	
					Centre, Nelson	
					Mandela	
					University,	
					Missionvale	
					Campus. Eskom	
					Expo will work	
					with the Eastern	
					Cape Department	

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					of Education to identify the participating schools.	
03/08/2023 & 04/08/2023	12h00- 17h00	Indoor Sports Centre, Nelson Mandela University - Missionvale Campus	Old Uitenhage Rd, Salt Pan, Bethelsdorp, 6059	STEM in Action: Arduino Programming	The third activity will be run in partnership with STEM in Action and will consist of a programming workshop for grade 9-12 learners. Experienced facilitators will take learners on an Arduino programming journey, which will involve engaging learners in a 1,5hrs coding session at STEM in ACTION laboratories at the Nelson Mandela University, Missionvale Campus. Two sessions will be presented per day	N/A

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					on the 3rd & 4th of	
					August. A total of	
					70 learners from 5	
					schools will be	
					selected to	
					participate each	
					day. This amounts	
					to 140 learners	
					over the 2 days.	
					The criteria for	
					selecting the	
					learners are those	
					with the relevant	
					prior knowledge	
					and a background	
					in computers, as	
					well as an interest	
					in coding and	
					robotics.	
					Learners will be	
					introduced to basic	
					Arduino	
					programming in a	
					fun and interactive	
					way. Thereafter	
					they will be	
					challenged to	
					programme a	
					robotic arm for	
					people. The	

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					workshop will speak to the main theme and show how coding and robotics can be used to transform lives. The workshop will focus on teaching several skills including sequential thinking, creativity and innovation.	