

National Science Week Programme of Activities:

Organisation/ Host:	Expo For Young Scientists	Organizer's Name			Fredy Mahate	Province/s:	Eastern Cape Province
District/s	Nelson Mandela Bay Metropolitan Municipality	Sarah Baartman District Municipality					
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DATE	TIME	VENUE	LOCATION	NAME OF THE ACTIVITY	DESCRIPTION OF ACTIVITY	ONLINE LINK e.g. Zoom registration 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 Campus			<p>science by 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</p>	

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					<p>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.</p>	

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					<p>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</p>	

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					<p>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</p>	

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					<p>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?</p> <p>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</p>	

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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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					<p>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</p>	

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					<p>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.</p>	