



science
& technology

Department:
Science and Technology
REPUBLIC OF SOUTH AFRICA



SAASTA
South African Agency for Science
and Technology Advancement

NATIONAL SCIENCE WEEK

Deepening our Democracy through Science

28 July – 4 August 2018



Organisation:	Christoph Meyer Maths & science Centre	Project Leader:	Dorothy Mlambo	Province	KwaZuluNatal
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National Science Week events and activities:

DATE & TIME	VENUE & LOCATION	ACTIVITY	AUDIENCE	CONTACT DETAILS	BOOKINGS REQUIRED?
30/07/20 0900- 1500HRS	Christoph meyer maths & science centre Vuka mabaso, kwa Nhlamvu Mseleni HOSPITAL ROAD R22	Simple science fun activity- GIANT TOOTH PASTE It is noted with appreciation that most of our audience are from underprivileged communities and less equipped schools. This is one simple fun activity might excite our communities. It is used to express the imagination and fun anyone would like. It is a popular activity used to popularise science. It entices learners /community to wanting to do Science The	All age groups	Dorothy 0738964305	No

		<p>facilitator may do with the laboratory chemicals & learners use household chemicals</p> <p>2.EXHIBITION- audience will see different science displays Centre</p> <p>3 Blowing balloons with vinegar –bicarbonate reaction Vinegar is a popular substance used in everyday food stuffs. Equally bicarbonate of soda is used in everyday life .This reaction would make Science popular and fun. Both young & old should wonder on magic behind blown up balloons since they know balloons blown up by mouth using human.</p> <p>4. Science projects – learners to bring their projects .There is also going to be showcasing of different projects they had prepared before.</p> <p>5.CHESS competition for the audience after training</p>			
31/07/2018 0900-1500hrs		<p>1.Titration. Most of the learners may finish school without having done this activity except seeing it in the textbook since it is a formal task. Due to this reason, doing titration during the national science week helps learners to familiarise with the concept</p> <p>Our audience will be assisted to titrate base</p>	Grade 11 &12 Educators	Sthembela Manukuza 071 405 2297	Bookings will be extended to grade 11& 12 only

		<p>(sodium bicarbonate of soda and vinegar/ sulphuric acid) (Using home chemicals) 2. Galvanic Cells: Copper/ Zinc electrodes used in different electrolytes .APPLICATION in day to day lives using chemicals. Galvanic cells convert chemical energy to electrical energy. With the problems we have in rural areas which chemicals can we use to produce our own electricity? May be it is an opportunity to enlighten the horizon for our rural folks and open their innovative baskets. 3.GIANT BUBBLES – Children are going to be excited with big giant bubbles - vinegar – bicarbonate of soda reactions - giant tooth paste 4 MATHS – chess training & competition</p>	<p>Grade 11& 12 Educators</p> <p>Primary schools</p> <p>Primary schools</p>		
1/08/2018 900- 1500hrs	<p>Christoph Meyer maths & science Centre Vuka Mabaso ,Kwa Nhlamvu</p> <p>Mseleni</p> <p>Mseleni Hospital Road R22</p>	<p>1.Air cushion Vehicle Problem: Need to show concept of friction and newton’s laws of motion Effect of friction on a mechanical system: Blank CD or CD you don’t want any more. Pop-top cap from a water bottle or dish soap bottle, super glue to stick the bottle cap over the hole of the CD and let it set.</p>	<p>Educators, all learners, public Young ones</p>	<p>Whitehead Daka 063 682 7339</p>	NO

		<p>Making sure the edges are fully sealed, Balloon is blown up, held , so that air escapes . Stretch the mouth of the balloon over the bottle cap, adjust the balloon to stand up straight</p> <p>Hovercraft works by forcing air out ,it is a project that would make people excited as well as having hands on experience .It can suit all age groups</p> <hr/> <p>2. Breaking down substances into their immediate components using electricity.</p> <p>Problems with some of schools that are not able to do Science practicals.</p> <p>This platform may benefit learners with formal activities as well.</p> <p>Copper chloride is broken down into copper & chlorine gas</p> <p>3. Mathematical games playing- Mlabalaba</p>	<p>Grade 11& 12</p> <p>Everyone</p>		
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		<p>in parallel with draft</p> <ul style="list-style-type: none"> • giant bubbles – science activity- learners using home based safe chemicals • burning bubbles activity 			
2/08/2018 0900-1500hrs	<p>Christoph Meyer Maths & Science Vuka Mabaso,Kwa Nhlamvu Mseleni Mseleni Hospital Road –R22</p>	<p>1.Community has great talent in music The activities will show science in sound and what makes up the sound they make. The audience will be attaching different objects on the sling steel and listening to different pitch made</p> <p>2. Straws will be used to demonstrate relationship between pitch and length.</p> <p>3. Maths games – Tick- a – tick game – due to problems faced by our communities in mathematics .Learners will be trained to play the game – this helps them the ability to explore number combinations, place value, patterns, and other important mathematical concepts.</p> <p>4 Science debates Learners are going to debate science ideas in order to deepen their democracy .</p>	Learners, educators , public	<p>Lawrence Mthembu 071 455 4232</p>	No

<p>3/08/2018 0900-1500hrs</p>	<p>Christoph Meyer maths & science Vuka Mabaso, KwaNhlamvu Mseleni</p> <p>Mseleni Hospital Road –R22</p>	<p>Burning fire bubbles is fun and makes people think that everything is possible with Science. Background of the communities that are going to participate will be very excited with this activity</p> <p>Straw rockets – a project where young children are going to get some skills needed and making something they want to play with.</p> <p>Maths quiz- training learners to think fast. Exhibition- learners to see different science displays Giant toothpaste Burning fire bubbles</p>	<p>Learners, public, educators</p>	<p>Sbusiso Mthembu 074 297 6475</p>	<p>No</p>
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