



science  
& technology

Department:  
Science and Technology  
REPUBLIC OF SOUTH AFRICA

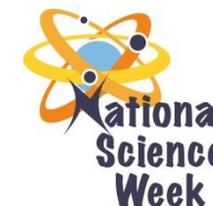


SAASTA  
South African Agency for Science  
and Technology Advancement

## NATIONAL SCIENCE WEEK

Deepening our Democracy through Science

28 July – 4 August 2018



<b>Organisation:</b>	Thakamakau Enterprises	<b>Project Leader:</b>	Kgethang Thakamakau	<b>Province/s:</b>	Free State
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### National Science Week events and activities:

DATE & TIME	VENUE & LOCATION	ACTIVITY	AUDIENCE	CONTACT DETAILS	BOOKINGS REQUIRED?
30 July – 3 Aug 8H00 – 14H00	Kutlwanong High School Hall, Odendaalsrus Lejweleputswa District Municipality	<b>Technology in jewellery:</b> <i>Exploration of a new career path by using innovation in our environment</i>  In this activity, the audience would be demonstrated with how the jewellery school develops a brand called 'Phatsima' by using Rapid Prototyping Technology and Computer aided Design to manufacture jewellery models by melting of metals, rolling, polishing, soldering finished product (CAD designs)	Learners,  Students,  Educators,  Public	Kgethang  0813047159	Yes  Please Call Kgethang

<p>30 July – 3 Aug 8H00 – 14H00</p>	<p>Kutlwanong High School Hall, Odendaalsrus Lejweleputswa District Municipality</p>	<p><b>Film- The Martian:</b> <i>Bring Him Home movie</i></p> <p>The audience would watch a film in which during a manned mission to Mars, Astronaut Mark Watney, is presumed dead after a fierce storm, and is left behind by his crew. But Watney has survived and finds himself stranded and alone on the hostile planet. With only meagre supplies, he must draw upon his ingenuity, wit and spirit to subsist and find a way to signal to Earth that he is alive. Millions of miles away, NASA and a team of international scientists work tirelessly to bring “the Martian” home, while his crewmates concurrently plot a daring, if not impossible rescue mission</p>	<p>Learners, Students, Educators, Public</p>	<p>Kgethang  0813047159</p>	<p>Yes  Please Call Kgethang</p>
<p>30 July – 3 Aug 8H00 – 14H00</p>	<p>Kutlwanong High School Hall, Odendaalsrus Lejweleputswa District Municipality</p>	<p><b>Science in Sports:</b> <i>Math in Power of Sports</i></p> <p>Most people associate power with muscles and muscle strength – the larger the muscles, the greater the power. Power is the rate at which work is done. In this activity, the audience will be demonstrated by climbing a set of stairs on how Power is measured in Watts that the greater one’s level of fitness, the faster one should be able to run up the stairs or hill, thus the greater the amount of Watts of power that one can generate. For example, the best known every day reference to Watts is with the light bulb, the greater the number of Watts a light bulb can generate, the brighter the bulb. Therefore the stronger one will be in sports and may excel</p>	<p>Learners, Students, Educators, Public</p>	<p>Kgethang  0813047159</p>	<p>Yes  Please Call Kgethang</p>

<p>30 July – 3 Aug 8H00 – 14H00</p>	<p>Kutlwanong High School Hall, Odendaalsrus Lejweleputswa District Municipality</p>	<p><b>Further Science Studies:</b> <i>Study science in mining through PMI-Technical</i></p> <p>Presentations and exposure of different engineering programmes offered by PMI Technical: Boilermaking, Artisan, Welding, Electrical, Fitting, Hydraulics, Diesel mechanics, Instrumentation, Rigging, Construction, Shaft envelope, Engineering development, Managerial development, etc. This presentation would encourage audience to pursue science in their future studies, therefore the audience would be able to make an informed decision on which career paths to study further</p>	<p>Learners, Students, Educators, Public</p>	<p>Kgethang  0813047159</p>	<p>Yes  Please Call Kgethang</p>
<p>30 July – 3 Aug 8H00 – 14H00</p>	<p>Kutlwanong High School Hall, Odendaalsrus Lejweleputswa District Municipality</p>	<p><b>Weather Science:</b> <i>State of the art equipment/technology used by SAWS is necessary for sustainable future</i></p> <p>In this activity, the audience would be showcased on how weather and climate forecasts are carried out, and why weather forecasts is important in our daily lives, and how interactions between the oceans, atmosphere are playing an important role in better predicting the weather and climate change: deserts, droughts, floods and global warming &amp; rising sea levels, desertification and what equipment they use, and the other services they provide. As an Aviation Meteorological Authority, SAWS is designated to provide weather services to the aviation industry, marine and a range of other identified clients, therefore the audience would be demonstrated on how significant is this role</p>	<p>Learners, Students, Educators, Public</p>	<p>Kgethang  0813047159</p>	<p>Yes  Please Call Kgethang</p>

<p>30 July – 3 Aug 8H00 – 14H00</p>	<p>Kutlwanong High School Hall, Odendaalsrus Lejweleputswa District Municipality</p>	<p><b>Forensics Science:</b> <i>Solving crime through the use of technology</i></p> <p>In this activity, the audience would be exposed on how police forensics use different methods to collect evidence such as DNA technology to gather adequate evidence such as fingernail scrapings, condoms, tissue, cigarette butts, dental floss from a crime scene, send to laboratories to identify or link the person who has committed crime and the role SAPS plays in reducing crime in keeping our country safe, such as fraud and psychologically motivated crimes</p>	<p>Learners, Students, Educators, Public</p>	<p>Kgethang 0813047159</p>	<p>Yes Please Call Kgethang</p>
<p>30 July – 3 Aug 8H00 – 14H00</p>	<p>Kutlwanong High School Hall, Odendaalsrus Lejweleputswa District Municipality</p>	<p><b>Science in meat preparation:</b> <i>Science technology used in abattoirs in addressing safety in the meat we eat</i></p> <p>In this activity, the audience would be presented with how Sparta Foods plays an important role in ensuring food security and assumes the responsibility for producing beef that is healthy, wholesome, quality products and free from defects whilst ensuring safe and hygienic product complying with environmental legislations by using science innovations to avoid diseases such as the recent Listeriosis outbreak</p>	<p>Learners, Students, Educators, Public</p>	<p>Kgethang 0813047159</p>	<p>Yes Please Call Kgethang</p>

<p>30 July – 3 Aug 8H00 – 14H00</p>	<p>Kutlwanong High School Hall, Odendaalsrus Lejweleputswa District Municipality</p>	<p><b>Further Science Studies:</b> <i>Career opportunities offered by Goldfields TVET College</i></p> <p>Presentations and exposure of different science learning programmes offered by Goldfields TVET College: Career preparation, Learnerships, Nated and NCV programmes Skills programmes. This presentation would encourage audience to pursue science in their future studies, by choosing such careers that would improve the lives of people and supports the sustainable development agenda, therefore the audience would be able to make an informed decision on which career paths to study</p>	<p>Learners,  Students,  Educators,  Public</p>	<p>Kgethang  0813047159</p>	<p>Yes  Please Call Kgethang</p>
<p>30 July – 3 Aug 8H00 – 14H00</p>	<p>Kutlwanong High School Hall, Odendaalsrus Lejweleputswa District Municipality</p>	<p><b>Further Science Studies:</b> <i>Career opportunities offered by Central University of Technology (CUT)</i></p> <p>Presentations and exposure of different learning and training programmes offered by CUT: Faculty of Engineering and Information Technology; Faculty of Health and Environmental Services; Faculty of Management Services. This presentation would encourage audience to pursue science in their future studies, by choosing such careers that would improve the lives of people and supports the sustainable development agenda, therefore the audience would be able to make an informed decision on which career paths to study</p>	<p>Learners,  Students,  Educators,  Public</p>	<p>Kgethang  0813047159</p>	<p>Yes  Please Call Kgethang</p>

<p>30 July – 3 Aug 8H00 – 14H00</p>	<p>Kutlwanong High School Hall, Odendaalsrus Lejweleputswa District Municipality</p>	<p><b>Increasing the awareness of the wonders of Science:</b> <i>Promoting an interest in STEMI activities and develop a passion for science and acquire scientific skills</i></p> <p>By the very nature of its activities, Eskom shows the role it is making a contribution to improving the scientific, technical, and research skills of young people, and providing an excellent opportunity for teachers to engage in the type of activity promoted within the education curriculum</p>	<p>Learners, Students, Educators</p>	<p>Kgethang  0813047159</p>	<p>Yes  Please Call Kgethang</p>
<p>30 July – 3 Aug 8H00 – 14H00</p>	<p>Kutlwanong High School Hall, Odendaalsrus Lejweleputswa District Municipality</p>	<p><b>Collaboration with Aviation:</b> <i>The key to commercialisation of space</i></p> <p>In this activity, the audience would presented on why by contrast, aviation is a global industry, involving the range of activities from engineering design to marketing, safety standards improved through the use of technology and serving more than 1 billion passengers per year</p>	<p>Learners, Students, Educators, Public</p>	<p>Kgethang  0813047159</p>	<p>Yes  Please Call Kgethang</p>
<p>30 July – 3 Aug 8H00 – 14H00</p>	<p>Kutlwanong High School Hall, Odendaalsrus Lejweleputswa District Municipality</p>	<p><b>Light bulb moment:</b> <i>Discovery of cave art</i></p> <p>Ever wondered how Lascaux cave was discovered, what was used to illuminate those beautiful paintings? In this activity, the audience would make their own makeshift lamp and have fun learning about light with the flickering light</p>	<p>Learners, Students, Educators, Public</p>	<p>Kgethang  0813047159</p>	<p>Yes  Please Call Kgethang</p>