



Dr. W.B. Rubusana Building* NU 1 Mdantsane* Private bag x 9007* East London* 5200* REPUBLIC OF SOUTH AFRICA
TEL/fax : 043 – 761 3400 * Website: eastlondoneducationdistrict.org.za

Enquiries: MRS T. MENZI Mobile 0823426355 email: tmenzi@webmail.co.za Fax : 086535938 or 0437614580

TO:

**Subject Advisers
School Principals
Teacher Unions
Maths & Science Teachers
SGBs**

From: NATIONAL SCIENCE WEEK 2009 ORGANISING COMMITTEE(E.L. DoE)

SUBJECT: NATIONAL SCIENCE WEEK 2009 – MDANTSANE INDOOR SPORTS CENTRE

Your school is invited to participate in the National Science Focus week that will be held at Mdantsane indoor sports centre from Saturday 09 May 2009 to Friday 15 May 2009.

This is completely different from all the other years we are encouraging learner participation in a variety of activities.

This document serves as an invitation as well as a guide on how to go about preparing your learners for effective participation. Great prizes will be awarded to schools as well as individual learners to encourage them to consider science, Mathematics and Technology as a career.

NB: Transport issue – a school is responsible to cater for its own transport
DoE is only responsible to cater for booked and reserved learners

The Theme for the Science week is,
“Tomorrow’s Science and Technology is in our Youth’s Hands”

NB: Following are the list of all the activities that learners can participate on. Please prepare them well so as to permit them to take an active part in Science week this year. Complete the booking form after considering the programme.

1.

MAKE A MACHINE THAT WORKS! GRADE 12:

Some Suggestions:

- A fridge alarm that warns you when someone opens the fridge.
- A home made alarm clock.
- A meter to measure how much water you draw from the tap.
- A fan you attach to your hat to cool your face.
- A water clock
- A Television, radio etc.

Some useful things for this competition are:

Tin cans, plastic cool drink bottles, elastic bands, paper clips, drinking straws, old clocks, old photocopying machines (if you are allowed to take them apart get the bits) torch cells, bits of wire, old syringes and tubing. (make sure they are safe by washing them in jik)- well almost anything. Have fun!

Criteria for judging

1. Your machine must work
2. You must be able to explain how your machine works.
3. Your work should be as neat as you can make it.

2.

BRIDGE BUILDING: (as part of exhibition/demonstration)

This competition will run daily at the National Science Week in East London. This is an opportunity to design a bridge that will support the greatest weight.

Using only seven pieces of newspaper and 1m of sticky tape make a bridge to span a distance of 500m. You may use a piece of dwelling or period of 10mm diameter to roll the paper.

To test the bridge

A mass piece is suspended from the centre of the bridge when it lies across a 500mm space between two desks. More mass pieces are added until the bridge breaks. The bridge can support the greatest mass is the winner.

3.

POSTER MAKING (GRADE R- 12)

Posters will be made advertising the themes of science, engineering or technology. It is entirely up to the contestant what they would like to put on the poster. The posters must be made from materials found in the contestant's environment.

Judging will take place on the days specified on the programme.

4.

QUIZ COMPETITIONS (GRADE 7-12)

A school has to select a team of six learners to represent the school in quiz competitions. The quiz competitions will be oral and will be conducted daily as per phase. Check the programme to verify which phase will be quizzed on the days you have chosen to visit. The quiz master has a set of questions which are appropriate for a particular phase and are a mixture of Maths, Science & Technology learning area insight. The team that gets the most answers correct will be a winning team. On arrival at the site in Rubusana you will have to register your teams for participation.

5

POETRY/STORY TELLING – based strictly on the theme

Yours truly

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T. Menzi (MSTE – coordinator)

5.

STREET THEATRE COMPETITIONS

No entry fee all ages may enter.

RULES <ul style="list-style-type: none"><input type="checkbox"/> Only one entry per group.<input type="checkbox"/> No more than six performers in a group and no less than 2.<input type="checkbox"/> The performance may be in English, Xhosa or Afrikaans. The performance may not last longer than 10 minutes.<input type="checkbox"/> Your performance may include dialogue, song, dance and music.<input type="checkbox"/> All plays must be based on two themes below.<input type="checkbox"/> Play-offs will take place on the indicated days in the programme and will culminate with the provincial eliminations on Thursday in East London.	CRITERIA <p>The panel of 3 judges will be looking for the following:</p> <ol style="list-style-type: none">1. A play that most successfully conveys the message of the chosen theme.2. A script that is well structured.3. A play which does not run over the time limit and does not use more than 6 actors or less than 2.4. Presentation and staging of the play i.e. The grouping, direction, choreography (if used) voice projection, characterization, communication to one another, etc.5. Sincerity – play where the actors appear to believe in and understand the message that they are conveying.
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NB: Where the judges feel that a group not of a good enough standard, a winner will not be chosen.

THEMES / TOPICS

1. LIVING WITH ELECTRICITY IN THE NEW SOUTH AFRICA

Here you have the opportunity to explore many interesting aspects of electricity.

Some ideas to consider are:

- What is electricity?
- Where does electricity come from?
- How can electricity make a difference in my life?
- What is my responsibility in looking after the electricity supplied to me and my community
- What are dangers of using electricity and how can we use it safely?

2. LIVING WITH WATER IN THE NEW SOUTH AFRICA.

Here are some ideas you may wish to consider when you write your script.

- How do we use rain in our fields and in our homes?
- How can we collect and save water in times of drought?
- How has the system of collecting and purifying water changed in the last 10 years?

What's happening on the science fair?

- Interactive science, engineering and Technology displays – You will play with the displays which are designed to teach you science concepts behind a lot of the machines and tools that we use every day.

- The Market Place – A wide range of scientific, engineering and technological organizations and business will be showing you what they do, giving you take home materials and advice on careers in their fields.
- Workshops for educators, for bridge building, How I teach it workshop demonstration by other educators, poster making, fun science, math's made easy, astronomy and many more.
- Learners support programmes, **learning channel** on the big screen solving Maths burning issues, science and Biology revision of past examination papers by experts.
- Quiz with exciting science-related prizes.

BOOKING FORM

Complete this form and post it back or fax it back to the details given below:
 Postal: The NSW 2008; P.O. Box 3254; Cambridge; 5206.

Fax Numbers: **043 743 4589** or **0866 426142**.

Always remember to Write Attention: **National Science Week 2008**.

Please make a tick on the Day and Time that you would like your school to visit the science week centre. We will contact you and confirm your visiting time.

Rules: There must be 1 adult for every 30 learners. Adults must accompany the learners all the times.;

Name of School _____ District _____

Contact person _____ Contact telephone Number: _____

Number of learners _____

TIME	DAY 1	DAY 2	DAY 3	DAY 4	DAY 5	DAY 6	DAY 7	DAY 8
08H30– 10H00								
10H10– 12H00								
12H00– 14H00								
14H00– 15H30								

TRANSPORT ARRANGEMENTS:

In cases where your school has financial constraints in organizing own Transport to Rubusana for the Science week. The Department of Education is willing to help with transport costs for the learners to and fro Rubusana.

To apply for transport this is what you do:-

1. Get three (3) quotations from transport providers that are the suppliers of service to the department e.g. those that run scholar transport.
2. Fax those quotations to the fax numbers listed above.

Please Note: Faxes must reach the department not later than **Monday the 21 of April**. Please note that the deadline of **21st April**. No other transport arrangement will be catered by the department outside this deadline. You will have to make your own transport arrangements to come to the science week.

“Tomorrow’s Science and Technology is in our Youth’s Hands”

**NSW 2008 DoE EAST LONDON
FINAL PROGRAMME**

DETAILED

Project implementation plan for Focus Week (10 May – 17 May 2008)

Province:					
Date	Venue	Description of activities	Target Audience	Enquiries	Bookings Required?
10 May Saturday	Mdantsane Rubusana	<ul style="list-style-type: none"> ❖ Five Kilometre Fun Run ❖ Talk on the Science of Sport - Brian Richards (Border Athletics Chairperson) 	Learners and Community	Mr. P.V. Mhlanga - 078474 1340	Yes
11May Sunday	Great Hall Rubusana	<ul style="list-style-type: none"> ❖ IKS Focus day : ❖ Display of traditional food e.g. Mngqusho, sigwampa, mqa etc ❖ Tradional beer - umqomboti and amarewu ❖ Traditional artifacts ❖ Perfomance on traditional musical instruments by various groups including the following:- ❖ Church women associations ❖ Sangomas ❖ Choirs ❖ Dancers ❖ Lecture on IKS - Mr. Mnyatheli - Director Dept of International Relations UFH) 	Learners and Community	Mrs. S. Mhlakotshana - 0722139462	Yes
12 May Monday	<ol style="list-style-type: none"> 1. Large Tent - Rubusana. 2. Lower Demo 3. Upper Demo 	<p>Sifunda Sidlala interactive science exhibitions.</p> <p>Learning Channel Mathematics</p> <ul style="list-style-type: none"> ❖ Learning Mathematics - 2 Hours for grade 11 & 12 learners ❖ Learning Physical Science - 2 	<p>All GET & FET learners</p> <p>Grade 11 & 12 100 Learners Learning Channel Mathematics.</p>	<p>Mr. L. Mngqibisa - 0735063170</p>	<p>Yes</p> <p>Yes</p> <p>Yes</p>

Province:					
Date	Venue	Description of activities	Target Audience	Enquiries	Bookings Required?
		Hours for grade 11 & 12 learners ❖ GET Senior Phase Technology Workshop for Educators: Mr. Hirst.	Senior Phase educators 60		
13 May Tuesday	Physica Science Lab. Biology Lab Large Hall Big tent Computer Lab	❖ Street Theatre Competitions all phases. ❖ Poetry reading & Speech competitions all phases ❖ Site Launch Event of NSW 2008 - Premier invited as guest speaker. 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	Ms. N. Mbokomba - 073 187 8778	Yes
14 May Wednesday	Small Tent Medium Tent Physical Science Lab. Biology Lab Large Hall	Machines that work Competitions Quiz for Foundation Phase & Intermediate Phase Poster Displays Competitions All Phases: 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	All Grades 200 learners. Foundation & Intermediate phase learners. 60 schools. Grade 9 learners 100 100 grade 11 & 12 Learners	Ms. N.X. Sithole - 083 738 7038	Yes

Province:					
Date	Venue	Description of activities	Target Audience	Enquiries	Bookings Required?
15 May Thursday	Large Hall Big Tent Medium Tent	<p>Quiz Competitions for the Senior Phase Quiz Competitions for the FET Band Olympiads regional Eliminations How I teach It - Demonstration Science Lessons for educators by MDAMSTEDA.</p> <p>Peer Science Experiments Demonstration by Dinaledi schools learners.</p> <p>Exhibition by various publishers and Buffalo City Public FET</p> <p>Interactive Sifunda Sidlala</p>	<p>Senior Phase & FET learners 200.</p> <p>Senior Phase Educators</p> <p>For All</p> <p>For All</p>	<p>Mr. S. Matshayana - 0772 461 5498</p>	Yes
16May Friday	Large Hall Big Tent Medium Tent Small Tent	<ul style="list-style-type: none"> ❖ Final Eliminations with all Districts KWT, B/worth & Cofimvaba coming to East London. ❖ Quiz, Poster, Machines that work & Bridge building. ❖ Wonders of the World of Science demonstrations by UFH students of the faculty of Science. <p>Exhibition by various publishers and Buffalo City Public FET</p> <p>Interactive Sifunda Sidlala</p>	<p>For All</p> <p>For All</p>	<p>Mr. Nelson & Falangile - 073296 2858</p>	Yes
17May Saturday	East London	<ul style="list-style-type: none"> ❖ Educators Tour - SABS animal health plant East London. ❖ East London Airport ❖ Daimler Chrysler SA plant ❖ Museum, Zoo and Aquarium visit. ❖ Break Down & Departure 	<p>GET & FET Educators in East London District</p>	<p>Mrs. N.P. Peter - 076 971 2133</p>	Yes

