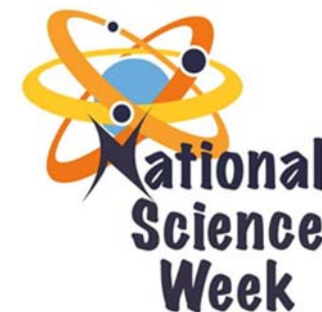


Dendron Secondary School

Dinaledi School

Province: Limpopo

1007 Keiser Street, Dendron, 0715



Project implementation plan for Focus Week (1-8 August 2009)

DAY 1: CHEMISTRY EXPERIMENTS

THRUST	OBJECTIVES	DELIVERY APPROACH	TOPIC	TARGET AUDIENCE	INTENDED NUMBER TO BE REACHED
SCIENTIFIC AREA	1. Create awareness of the danger of using CFCs	<p>Activity 1: Poem + Drama</p> <p>Content: Causes of ozone layer Depletion</p> <p>Duration: 45 minutes</p> <p>Frequency: Once off</p> <p>In-house or Outreach: In-house</p> <p>Format: Presentation.</p>	Chemical Systems	Learner- Parents- Educators- General Public-	<p>340 learners:</p> <ul style="list-style-type: none"> • 50 learners/group. • 4 classrooms are reserved for the activities <p>27 teachers Learners & teachers from surrounding schools</p>
	2. Encouraging learners to study science, Maths and Technology and motivating	<p>Activity 2: Chemistry Experiments</p> <p>Content:</p> <ol style="list-style-type: none"> 1. Identification of acids & bases 	Types of reactions REDOX reactions	Grade 10-12 learners. General Public	<p>340 learners 27 teachers Learners & teachers from surrounding schools.</p> <ul style="list-style-type: none"> • A maximum of 50 learners per class. A

	<p>those who are already studying the subjects</p>	<p>2. Redox reactions</p> <ol style="list-style-type: none"> Sugar vs conc H_2SO_4 Mg vs O_2 $\text{CuO} + \text{Al} + \text{Zn}$ $(\text{NH}_4)_2\text{CrO}_4 + \text{O}_2$ Glycerol vs KMnO_4 <p>3. Precipitation reactions.</p> <ol style="list-style-type: none"> $\text{Ba}^{2+} + \text{SO}_4^{2-}$ $\text{Ag}^+ + \text{I}^-$ <p>4. Titration</p> <ol style="list-style-type: none"> NaOH vs HCl <p>5. Reversible reactions</p> <ol style="list-style-type: none"> $[\text{Co}(\text{H}_2\text{O})_6] \rightleftharpoons [\text{CoCl}_4]^{2-}$ $\text{Cr}_2\text{O}_4^{2-} \rightleftharpoons 2\text{CrO}_4^{2-}$ Compute assisted demonstrations <p>6. The relationship between the volume and pressure of a gas at constant temperature.</p> <p>Duration: 2 hours</p> <p>Frequency: Once off</p>	<p>Precipitation reactions</p> <p>Titration</p> <p>Reversible reactions</p> <p>Boyle's law</p>	<p>Grade 10-12 Science & Maths educators.</p>	<p>maximum of two experiments are done per room.</p>
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	<p>In-house or Outreach: In-house Format: Practical Experiments</p> <p>Activity 3: Physics experiments</p> <p>Content: Mechanics</p> <ol style="list-style-type: none"> 1. Determination of the value of the force of gravity. 2. Electrostatics 3. Ohms' law <p>Duration: 2 hours</p> <p>Frequency: Once off</p> <p>In-house or Outreach: In-house</p> <p>Format: Hands-on Experiments</p>			
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DAY 2: CAREER EXHIBITS

	<p>Attract more of our youth in SET careers</p>	<p>Activity 4: Careers exhibits</p> <p>Content: Career information from:</p> <ul style="list-style-type: none"> • Forensic specialists • Mine engineer • Medical practitioner • Nurse • Chemical engineer • Radiologists <p>Duration: 3 hours</p> <p>Frequency: Once off</p> <p>In-house or Outreach: In-house</p> <p>Format: Presentations</p>	<p>Career Exhibits</p>	<p>Grade 10-12 learners.</p> <p>General Public</p> <p>Grade 10-12 Science & maths educators.</p>	<p>340 learners 27 teachers Learners & teachers from surrounding schools</p> <ul style="list-style-type: none"> • Each specialist is given a room and learners will be moving from room to room. • Each specialist is given 30 mins.
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DAY 3: Science and our Health

	<p>Create awareness of the important role science and maths plays in our daily lives.</p>	<p>Activity 5: Informative talks by specialists of different fields.</p> <p>Content: The contribution of science on reducing the death rate by each of the following diseases:</p> <ol style="list-style-type: none"> 1. AIDS 2. Cholera 3. Cancer <p>Duration: 3 hours</p> <p>Frequency: Once off</p> <p>In-house or Outreach: In-house</p> <p>Format: Presentations</p>	<p>AIDS</p> <p>Cholera</p> <p>Cancer</p>	<p>Grade 10-12 learners.</p> <p>General Public</p> <p>Grade 10-12 Science & maths educators.</p>	<p>340 learners 27 teachers Learners & teachers from surrounding schools</p> <ul style="list-style-type: none"> • Each specialist is given a room and learners will be moving from room to room. • Each specialist is given 30 minutes.
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