

PRIMARY SCHOOL GRADE R - 7



BEEBOTS

A perfect introduction to coding and computational thinking! This workshop is appropriate for Foundation Phase learners and allows coding to be explored through a tangible and visual experience.



SOUND AND VIBRATIONS

Sound is caused when an object vibrates. Investigate the many different ways objects can vibrate to produce sound, while learning more about the properties of sound.



ELECTRICITY

Learn more about electricity and how we can control and manipulate it. This electrifying workshop includes building circuits.

HIGH SCHOOL GRADE 8 - 12



OHM'S LAW

Experiment with Ohmic and Non-Ohmic resistors, while investigating Ohm's Law in a hands-on workshop.



PH AND INDICATORS

Learn more about pH values and indicators through this interactive workshop using several different indicators while exploring weak and strong acid/bases.



NUMBER PATTERNS

Discover numbers in the world around us and learn about how patterns aid our understanding of the physical world. Explore the Fibonacci sequence and more in a hands-on maths workshop.

CTSC



CapeTownScienceCentre

EDUCATION HIGHLIGHTS

Third Term 2019

NEW WORKSHOP
E-LEARNING using Augmented Reality. Explore the solar system like never before!

CAPE TOWN SCIENCE CENTRE

370B Main Road, Observatory | www.ctsc.org.za | 021 300 3200 | 086 519 7227
Opening Hours: Monday to Saturday 9:00 - 16:30 | Sundays & Public Holidays 10:00 - 16:30

Pick up the 2019 Education Programme for more details and how to book your visit

FREE TEACHER ENRICHMENT WORKSHOPS

Supported by the Western Cape Education Department

CALLING ALL SCIENCE TEACHERS! You asked for more so that's what we are giving you – **FREE** workshops and take home resources. All linked workshops are 1.5 hrs and will be repeated therefore teachers will have the opportunity to attend more than one workshop on the day - booking is essential.

CHEMISTRY IN THE CLASSROOM - Linked workshops

Experimental Elements of the Periodic Table | Grade 4 - 9

Join in celebrating the International Year of the Periodic Table (2019) with a hands-on workshop as we journey through the Periodic Table of Elements. Relive the discoveries, walk through the history and experience some experimental chemistry which can be replicated back in class. The workshop will include some take-home experiments.

Essential Lab Management | All Grades

Breaks, spills, waste materials, disposal of chemicals, safety, and maintenance – just some of the issues teachers need to concern themselves with when doing Practical Assessment. Upskill your experimental practices and maximise your resources in this entertaining hands-on workshops. Whether you have a full lab or just a few resources, this is a must attend workshop for you!

EXPERIMENTING WITH E-LEARNING - Linked Workshops

Smartphones as Educational Tools | All Grades

From educational nuisance to educational advantage, learn how smartphones may be easily and safely incorporated into your lesson at essentially no cost! From augmented reality to experimental apparatus, smartphones can add value and assist in learning. Learn what works and what should be avoided. Bring your smartphone and walk away with reliable, tried and tested educational apps; E-learning starts here!

App Inventor | All Grades

Simple and engaging, learn to create your own App! From the creators of Scratch comes App Inventor, a block-based coding programming allowing you to easily create your very own app! So whether for fun, for your next lesson or simply to create something useful – this workshop will upgrade your skill set and launch you into the world of E-learning.

PS. Please bring smartphones with USB cable (charger cable)

DATE: 20 September 2019

TIME: 10:00 - 13:00

VENUE: Cape Town Science Centre

BOOKINGS: 021 300 3200 or info@ctsc.org.za

PLEASE NOTE:

- All teachers attending events at the CTSC will receive a Teacher Pass which gives you **FREE** access to the CTSC for the whole year. You will be notified when they are ready for collection.
- There is **NO FEE** to attend these workshops - bookings are on a first come first served basis.
- Resources will be available for you to take back to your school including your own CTSC 2019 Periodic Table of Elements A2 poster.
- Light refreshments will be served at all events.

Skills to help you succeed in you matric exams!

ESSENTIAL SKILLS

MATRIC WORKSHOPS

Get prepared! The CTSC recognises the challenges facing the performance of our Matric learners and wishes to run **TWO one-day intensive workshops** which will directly impact the skill and cognitive ability of matric learners, enabling them to better perform in their forthcoming final exams. The workshop includes practical demonstration on certain prescribed and recommended experiments, in-depth explanation of the theory, a strategy for approaching complex and difficult content areas, and review of previous CAPS exam questions. This skills-based workshop is a combination of content review before the exams and enrichment to better equip the learners to excel in the forthcoming exams. Each learner will receive a comprehensive workshop booklet to use for further revision.

MATRIC LIFE SCIENCE WORKSHOP

DATE: Saturday, 17 August 2019

TIME: 10:00 - 13:00

The workshop will showcase **live dissections** and **dynamic demonstrations**, providing context, clarity and **real-life visualisation** to the theory of the curriculum. Interpretation skills will be a key focus within in the workshop, in particular interpreting **diagrams, graphs, case studies** etc. Review of exams questions and strategies for tackling difficult questions will be provided.

MATRIC PHYSICAL SCIENCE WORKSHOP

DATE: Saturday, 24 August 2019

TIME: 9:00 - 15:00 (incl. a lunch break | please bring own lunch or coffee shop on site)

Interpretation skills will be highlighted within in the workshop, in particular interpreting **graphs, models, diagrams, formulas** etc. and providing a strategy which learners can use to read, interpret and produce required content (graph, diagram, formula etc). The workshop will cover Mechanics, Electricity, Organic Chemistry, Reaction Rates and so much more. **Strategies for computation** based questions will also be examined.

VENUE: Cape Town Science Centre

OPEN TO: All Grade 12 Learners and Teachers (FET)

COST: R60 pp (entry fee + booklet) OR R100 pp (entry fee + booklet + lunch)

BOOKINGS: info@ctsc.org.za or 021 300 3200

Teachers accompanying learners will receive free entry - please indicate when booking

BOOKING ESSENTIAL! Space is limited - advance payments will secure bookings

