

Science in the Making Club

Looking for some fun science experiments to do during the holiday?

Whether you want to unleash your inner-maker or nurture the curious scientists in you, join our **Science in the Making Club**, where we take a look at blending science and Maker Space. This club will be filled with loads of hands-on activities where you get to construct like an engineer, investigate like a scientist and experience wondrous discoveries like an explorer! Extracting DNA from strawberries, making squishy circuits and creating your own D.I.Y. Dino Fossils are just some of the activities that await you!

DATES: 11 - 13 December
TIMES: 10:00 - 13:00
AGES: Suitable for Ages 8+
COST: R600 (non-members)
R430 (CTSC members)

BOOKINGS: info@ctsc.org.za (max 20 kids for club)

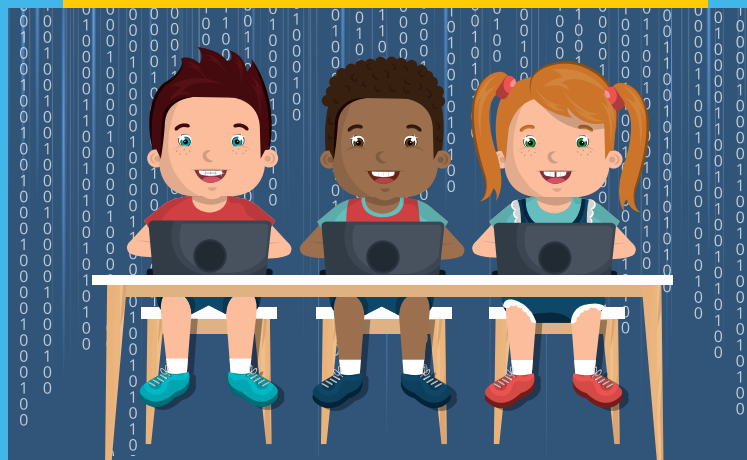


LET'S CODE HOLIDAY CLUB

See **SCRATCH** come to life in this 5-day **CODING** and **ROBOTICS** club. Get a taste for both coding and robotics in this highly creative, collaborative and relaxed environment. This easy to follow club will nurture their 21st Century skills as they go about enhancing their coding literacy - 15 hours of coding fun over a 5 day period and an opportunity to explore the rest of the Cape Town Science Centre.

DATES: 9 - 13 December
TIMES: 10:00 - 13:00
AGES: Suitable for Ages 8+
COST: R650 (non-members)
R450 (CTSC members)

BOOKINGS: info@ctsc.org.za (max 20 kids for club)



HOLIDAY HIGHLIGHTS

MYSTERY SCIENTIST WEEK

9 - 13 December 2019

The CTSC team jumped into a time capsule and was teleported back from the past as famous scientists. We need your help to uncover who they have come back as... Grab a Mystery Scientist Chart at the Info Desk and help us solve this mystery.

Guess Who?



LAUNCH PAD EVENTS

Creative Code - Monday, 23 Dec

DIY Nature - Monday, 30 Dec

Earthlings and Space Things - Monday, 9 Dec & 6 Jan

Get your Game On! - Monday, 16 Dec & 13 Jan

LAUNCH PAD EVENTS: Each Monday there will be an exciting Launch Pad event based on the themes for the holiday programme to launch the theme for the week. During the rest of the week, there will be workshops and demonstrations around the theme for the week (see calendar and website for more details on the Launch Pad event activities).

CTSC

CapeTownScienceCentre



HOLIDAY PROGRAMME

5 December 2019 - 14 January 2020



Celebrating the International Year of the Periodic Table

CTSC MEMBERSHIP

Become a **Member** and for less than R7 a week, get unlimited entry to the Cape Town Science Centre for a year. Ask at the Ticket Office for details.

OPENING HOURS & ENTRY FEES

Monday to Saturday 9:00 - 16:30 | Sundays & Public Holidays 10:00 - 16:30
CLOSED on 25 December & 1 January
Youth & Adults R75 | Pensioners R35 | Family (4 people) R265



Information correct at time of going to print. Programme is subject to change without notice. The Cape Town Science Centre is a registered non-profit organisation (031-701-NPO) and Public Benefit Organisation (18/11/13/2663). All funds received directly support educational programmes and exhibits. We value and encourage your support.

CAPE TOWN SCIENCE CENTRE

370B Main Road, Observatory | 33° 56' 17" S 18° 27' 50" E
021 300 3200 | info@ctsc.org.za | www.ctsc.org.za

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
			5 December 11:00 LAUNCH PAD: Terrarium Building 12:30 <i>Camera Obscura</i> 13:00 SCIENCE SHOW 15:00 <i>Camera Obscura</i>	6 December 12:00 <i>Camera Obscura</i> 12:30 Under the sea slime 13:00 SCIENCE SHOW 14:00 🐞 Ice on a string 15:00 <i>Camera Obscura</i>	7 December 12:00 <i>Camera Obscura</i> 12:30 Oceans uncovered 13:00 SCIENCE SHOW 14:00 🐞 Water filtration 15:00 <i>Camera Obscura</i>	8 December 12:00 <i>Camera Obscura</i> 12:30 Paint with leaves 13:00 SCIENCE SHOW 14:00 🐞 Trapped in a jar 15:00 <i>Camera Obscura</i>
9 December 11:00 LAUNCH PAD: Space race 12:30 <i>Camera Obscura</i> 13:00 SCIENCE SHOW 15:00 <i>Camera Obscura</i>	10 December 12:00 <i>Camera Obscura</i> 12:30 Solar system Sosatie 13:00 SCIENCE SHOW 14:00 🐞 Volcanoes 15:00 <i>Camera Obscura</i>	11 December 12:00 <i>Camera Obscura</i> 12:30 Oreo moon phases 13:00 SCIENCE SHOW 14:00 🐞 Rockets 15:00 <i>Camera Obscura</i>	12 December 12:00 <i>Camera Obscura</i> 12:30 Build-a-planet 13:00 SCIENCE SHOW 14:00 🐞 Build-a-comet 15:00 <i>Camera Obscura</i>	13 December 12:00 <i>Camera Obscura</i> 12:30 Solar system sosatie 13:00 SCIENCE SHOW 14:00 🐞 Volcanoes 15:00 <i>Camera Obscura</i>	14 December 12:00 <i>Camera Obscura</i> 12:30 Oreo moon phases 13:00 SCIENCE SHOW 14:00 Rockets 15:00 <i>Camera Obscura</i>	15 December 12:00 <i>Camera Obscura</i> 12:30 Build-a-planet 13:00 SCIENCE SHOW 14:00 🐞 Build-a-comet 15:00 <i>Camera Obscura</i>
16 December 11:00 LAUNCH PAD: Games Galore 12:30 <i>Camera Obscura</i> 13:00 SCIENCE SHOW 15:00 <i>Camera Obscura</i>	17 December 12:00 <i>Camera Obscura</i> 12:30 Balloon cars 13:00 SCIENCE SHOW 14:00 🐞 Blast off 15:00 <i>Camera Obscura</i>	18 December 12:00 <i>Camera Obscura</i> 12:30 Pop quiz time 13:00 SCIENCE SHOW 14:00 🐞 Fantastic elastic 15:00 <i>Camera Obscura</i>	19 December 12:00 <i>Camera Obscura</i> 12:30 Family egg drop challenge 13:00 SCIENCE SHOW 14:00 🐞 Swing pendulum 15:00 <i>Camera Obscura</i>	20 December 12:00 <i>Camera Obscura</i> 12:30 Balloon cars 13:00 SCIENCE SHOW 14:00 🐞 Blast off 15:00 <i>Camera Obscura</i>	21 December 12:00 <i>Camera Obscura</i> 12:30 Family egg drop challenge 13:00 SCIENCE SHOW 14:00 🐞 Swing pendulum 15:00 <i>Camera Obscura</i>	22 December 12:00 <i>Camera Obscura</i> 12:30 Pop quiz time 13:00 SCIENCE SHOW 14:00 🐞 Fantastic elastic 15:00 <i>Camera Obscura</i>
23 December 11:00 LAUNCH PAD: LEGO Design 12:30 <i>Camera Obscura</i> 13:00 SCIENCE SHOW 15:00 <i>Camera Obscura</i>	24 December 12:00 <i>Camera Obscura</i> 12:30 Binary bracelets 13:00 SCIENCE SHOW 14:00 🐞 Beebots 15:00 <i>Camera Obscura</i>	25 December CTSC CLOSED 	26 December 12:00 <i>Camera Obscura</i> 12:30 Foldscope, the paper microscope 13:00 SCIENCE SHOW 14:00 🐞 VR-Oculus 15:00 <i>Camera Obscura</i>	27 December 12:00 <i>Camera Obscura</i> 12:30 LEGO six bricks 13:00 SCIENCE SHOW 14:00 🐞 3D printing 15:00 <i>Camera Obscura</i>	28 December 12:00 <i>Camera Obscura</i> 12:30 Binary bracelets 13:00 SCIENCE SHOW 14:00 🐞 Beebots 15:00 <i>Camera Obscura</i>	29 December 12:00 <i>Camera Obscura</i> 12:30 LEGO six bricks 13:00 SCIENCE SHOW 14:00 🐞 Beebots 15:00 <i>Camera Obscura</i>
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CAMERA OBSCURA Have you ever taken a tour of the city while standing on one spot? Join us on one of our Camera Obscura tours for a 360° view of the surrounding area. Listen out for announcements to join the tour. Please note that this activity is weather dependant.						
SCIENCE SHOW Daily @ 13:00 Some call it magic, we call it science. Our daily Science Shows will excite while nurturing awareness that science is a part of our daily lives.						
CUB WEDNESDAYS Cubs, Brownies and Scouts from any pack will be given free entry to the CTSC on Wednesday, 11 & 18 December and 8 January provided they come dressed in their Cub, Brownie or Scouts uniform.						

Workshops are free unless otherwise stated. Standard entry fees to the CTSC apply to all visitors.

HANDS-ON WORKSHOPS

DIY NATURE

UNDER THE SEA SLIME: Slime is oozy, sticky and so much fun. Join us for this hands-on slimy workshop. (Age 5+ • R5)

PAINT WITH LEAVES: Leaves are very important in the life of a plant because it transports nutrients and water from the roots. Get creative with leaves and create a masterpiece. (Age 7+)

OCEANS UNCOVERED: The layers of the ocean can be scary. Dive into all the layers of the ocean and find out which creatures lurk above and below in this cool crafty activity. (Age 7+ • R5)

EARTHLINGS AND SPACE THINGS

OREO MOON PHASES: What has been around for millions of years, but is only a month old? We discuss how a new moon appears each month using Oreo cookies. (Age 7+ • R5)

SOLAR SYSTEM SOSATIES: Journey through the Solar System and create your own edible model while learning about the planets. Learning has never been so tasty. (Age 6+ • R10)

BUILD-A-PLANET: We uncover what special characteristics the planets have that make up our solar system have. Design and decorate your favourite planet. (Age 8+ • R5)

GET YOUR GAME ON

BALLOON CARS: Learn about air pressure and energy. Test your skills in exciting car races using balloons to charge your vehicle. (Age 8+ • R5)

FAMILY EGG DROP CHALLENGE: Science doesn't have to be boring or expensive. Put your mind to the test in this family-based tinkering challenge. Try to build a protective capsule to protect your egg as it is catapulted through the air. #EggsMustFall (Age 7+ • R5)

POP QUIZ TIME: Test your general knowledge of the world in this fun and competitive online quiz. (Age 8+ • R5)

CREATIVE CODE

BINARY BRACELETS: Binary, the language of our computers. Use binary code to spell out your name using beads to represent the two binary numbers 0 and 1. (Age 8+ • R5)

LEGO SIX BRICKS: Join the global frenzy in hands-on learning with LEGO Six Bricks. Introduce learning through play by developing memory and communication skills. (Age 5 - 10)

FOLDSCOPE, THE PAPER MICROSCOPE: A microscope that can be folded like origami? Don't miss this opportunity to take a closer look at the world around you. (Age 12+ • R50)



GAMES AND SPORTS ACTIVITIES

FANTASTIC ELASTIC: Ever wondered what happens when you stretch a rubber band? We will look at different types of energy we use on a daily basis.

BLAST-OFF: Get ready to catch! Explore physics while trying to juggle and catch the balls.

SWINGING PENDULUM: Did you know that the back-and-forth motion of a playground swing is an example of a pendulum. Let's put motion to the test using a 5kg bowling ball.

CREATIVE CODE

3D PRINTING: There is a new technology that has the ability to print an object not only in two, but in three dimensions. See a 3D model printed in this fascinating demonstration.

VIRTUAL REALITY - OCULUS: Do you find yourself wishing you were somewhere else at times? Come explore a different world while standing on one spot right here at the CTSC.

BEEBOTS: A bee that is also a robot? Come join this exciting demonstration and see coding in action.

THE SCIENCE CORNER

DIY NATURE

WATER FILTRATION: Join us as we discover the wonders of water filtration that changes filthy water into clear drinkable water.

ICE ON A STRING: Picking up a piece of ice using a string can be tricky, some may even say impossible. Join us and discover the secret ingredient to wow your friends and family.

TRAPPED IN A JAR: Take a closer look at the creepy looking creatures floating around in their jars.

EARTHLINGS AND SPACE THINGS ACTIVITIES

VOLCANOS: Want to see an erupting volcano up close? Come experience volcanos at the CTSC in this explosive demo.

ROCKETS: Discover how to make D.I.Y rockets using some household ingredients and you can even try it at home.

BUILD-A-COMET: Often described as "dirty snowballs", comets are one of many parts of our solar system. We discuss the makeup of comets and watch them form right before your eyes.