

### Field trips

Students and teachers go on a scientific field trip to one of the many facilities in the surrounding areas of Cork. Examples include Blackrock Castle Observatory which has long standing links with CIT, Fota Wildlife Park and Inniscarra dam and water treatment works. *(Half Day, bus transport will be funded by CIT Access Service)*

### Electronics workshop

This workshop is an interactive engineering workshop designed to demonstrate how electronics has evolved to bring us the sophisticated technology we are accustomed to using today. Students will be guided through a series of designs using CAD tools and electronic hardware designed to enhance their understanding and appreciation of engineering and technology (in conjunction with Cork Electronic Industry Association (CEIA)). *(2.5 hrs, school lab based)*

### Careers workshop

This workshop informs your students of the courses that are available in CIT, helps your students to focus on a potential career and helps them work towards it. *(1 hr 20 mins)*

### CAO workshop (parent and student information sessions)

This workshop aims to help your students choose the right course, for the right reasons. *(1 hr 20 mins)*

### Easter Workshops and Revision Days

Leaving Certificate Students can receive academic support in Biology, Chemistry, Physics and Mathematics in preparation for the leaving certificate examinations (in conjunction with Post Entry Support Programme). *(CIT based)*

### CIT Lab Practical's

CIT based sessions in the CIT science laboratories during the month of January. These sessions are aimed at senior cycle students. CIT Access linked schools can avail of these sessions to help students to successfully prepare for practical experiments examined on the leaving certificate Science curriculum. *(CIT based)*

### Teachers Information Session

Teachers can avail of the opportunity to visit CIT and see what the college has to offer. Teachers can meet with lecturers and students, and get a tour of the facilities on the Bishopstown campus. This will be followed by lunch. *(CIT based)*

### Study skills workshop

This workshop will help your students get the most from their classes. This workshop explains useful study and time management techniques (in conjunction with CIT Post Entry Support Programme and UCC PLUS+). *(1 hr approx, CIT and UCC based)*

### Online Science competition

Students can enter to be in with a chance to win an iPod. Enter competition via [www.facebook.com/citscienceforlife](http://www.facebook.com/citscienceforlife) or via [www.scienceweb.ie](http://www.scienceweb.ie) (Students from 4th year to 6th year are eligible to enter the competition).

*(The above workshops are suitable for students aged 16 and up, including all senior cycle students and can be tailored to meet your specific needs. All workshops are free of charge and the materials will be provided)*

Additional specific science sessions can be tailored to meet the demands of each participating school. To book any of the sessions on this brochure or to find out more information, please contact:

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The Science for Life programme is a CIT Access Service Initiative funded by the Dormant Accounts Fund

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# doctor lawton's lab



## The CIT Science for Life Programme is a CIT Access Service initiative in collaboration with CIT School of Science.

The main aim of the programme is to encourage, support and motivate students to study science at junior and senior cycle level in post primary schools and to study science at third level.

CIT's 'Science for Life' Programme is pleased to offer Access linked schools a brand new set of workshops for the 2010/2011 academic year. We wish to expand on last years activities and to continue to lead students towards third level education by making learning as much fun as possible. We aim to achieve this by helping students to focus on science at junior cycle with lots of fun workshops, allowing students hands on experience science in Transition year with field trips and helping students achieve their goals through academic support in senior cycle.

Our workshops start out being incredibly fun, messy and colourful. Junior cycle students can take part in a variety of activities outlined below e.g. exploding volcanoes or making lava lamps. Gradually the workshops become more challenging (senior electronics workshop) and lean towards academic support as the senior students get nearer the leaving certificate. All workshops aim to help students enjoy science more and enable students to link all aspects of science with every day life.

doctor  
lawton's  
lab



# doc lawty's fun workshops



## Reactions workshop - Iodine Snake

Chemistry is the coolest science of all. It is the dirtiest and most colourful. In this reactions workshop your students can learn how chemicals react with one another by making an Iodine snake - while having lots of messy fun.

## Reactions workshop - exploding volcano

Chemical reactions are continually occurring in the world around us. In this reactions workshop students build their own volcano and using reagents from the kitchen cupboard make it explode with lava. Its hands on, colourful learning.



## Plastics workshop

Plastics (chemicals) are a very important part of everyday life. In this workshop each student makes Slime in the colour of their choice. Students learn that chemical reactions are very messy and fun.



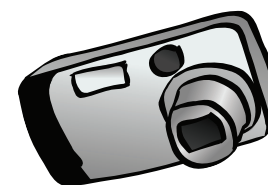
## Immiscible liquids workshop

All solutions are liquids, some liquids dissolve in each other and others do not. In this workshop students learn about miscible and immiscible liquids in a hands on, colourful and fun way by making lava lamps.

## Acids and bases workshop



It is a common perception that acids are dangerous fuming liquids, yet most are quite harmless and we even eat acid on our chips. In this workshop students make their own pH indicator and then test household products and foodstuff using their own indicator and universal indicator paper. It is easy, fun, practical learning.



## Electronics workshop

Electronic devices surround us in our everyday life; all of these devices are tiny electrical circuits (iPOD's, mobile phones and calculators). In this workshop students use batteries, LED's, bread boards and Vero boards to build their own circuits, it's practical, busy, hands on learning.

## Hello, Hello workshop

There are hundred of millions of phones in the world today that transmit voices, words, pictures, data and videos. Communication has come along way from Alexander Graham Bell's invention of the telephone in 1876. In this workshop pairs of students make their own phones using electrical current and magnetism just like Bell did. This workshop is a busy, hands on, challenging and fun way to learn how physics has impacted on our lives from an early stage.



## Health and Hygiene workshop

Ireland in the 21st century is a very modern society, we have a huge variety of food and drink at our disposal and we have also become host to diseases and pathogens like obesity, swine flu and MRSA. In this workshop students learn about health, hygiene, and food, the importance of all three in everyday life and exactly what is in our food. Students become analytical scientists and measure how much salt and fat is in a bag of crisps? Or how much sugar is present in a bottle of coca cola? Students learn in a fun way that science pervades all aspects of human life and that each aspect is a combination of all the sciences.

## Body Parts Workshop

In this workshop, students learn about the body parts that make up the human body and how science and engineering has evolved to contribute to the body's ability to function normally, following accident or illness, through prosthetics and other biomedical devices. Cork has a large biopharmaceutical and medical device industry, which has longstanding links with CIT.



**FUN WORKSHOPS ARE 1 HR 20 MIN  
AND ARE SCHOOL LAB BASED**

## Online Science competition

Students can enter to be in with a chance to win a Nokia touch screen phone. Enter competition via [www.facebook.com/citscienceforlife](http://www.facebook.com/citscienceforlife) or via [www.scienceweb.ie](http://www.scienceweb.ie) (Students from 1st year to 3rd year are eligible to enter the competition).

(The above workshops are suitable for students aged 8-16, including all junior cycle students and can be tailored to meet your specific needs. All workshops will take place in school, free of charge and the materials will be provided)