

ignITE SCIENCE & TECHNOLOGY CHALLENGE 2015 FACT SHEET

About ignITE

In February 2008, ITE's School of Applied & Health Sciences organised the inaugural ignITE Science & Technology Challenge in collaboration with Science Centre Singapore and the Ministry Of Education. The success of the competition led to it being held annually. Each year, the participants will focus on a different theme and tackle different disciplines of science.

The ignITE Science & Technology Challenge aims to use innovative and fun ways to enable our students to understand the application of science, in meaningful contexts which are relevant in their daily lives.

Every year, a one-day workshop is held in ITE College East during ITE's March Term Break to introduce participants to the theme of the year. A preliminary round is then held in April to identify the finalists. A summary of the ignITE Science & Technology Challenge held from 2008 to 2014 is shown in the table below.

Year	Theme	Total Number of Responses
2008/ 2009	Candy-making	40 schools (200 students)
2010	Soap-making	32 schools (160 students)
2011	Protein Science – The Art of Fishball Making	38 schools (210 students)
2012	<ul style="list-style-type: none"> • Bubbles & Squeak (shampoo making) • INKpressive (natural dye making) • iDigix (skills in creating spreadsheets) • <i>Chemistack</i>TM (board game introduced by ITE) 	43 schools (681 students)
2013	<ul style="list-style-type: none"> • Lotions & Potions (hand lotion making) • Can-DIY (candy making) • iDigix (skills in creating spreadsheets) • <i>Chemistack</i>TM, (board game introduced by ITE) 	49 schools (726 students)
2014	<ul style="list-style-type: none"> • Keep Kool (refrigeration coil design) • Sportalicious (sports drink making) • INKpressive (natural dye making) • iDigix (skills in creating spreadsheets) • <i>Chemistack</i>TM (board game introduced by ITE) 	42 schools (630 students)

ignITE Science & Technology Challenge 2015 Details

Number of participants

Total: 690 students from 50 schools
Finals: 153 students from 29 schools

Categories

Dermarouge

Participants are briefed on the basic anatomy of the skin and different types of wounds. With the clever use of eye shadow make-up, they simulate real injuries on the skin. Casualty alert!

CanDIY in 3D

Students participate in lollipop and marshmallow candy making, and create 3D candy artwork that is as delicious as it looks.

Keep Kool

Participants learn the basics on how an air-conditioner keeps us cool when the weather gets unbearably hot. They then get the chance to make their own refrigeration coil – the coolest one wins!

Sportalicious

What are the essential ingredients in a sports drink that replenish fluids and salts? Students compete by making a sports drink that not only rehydrates the body quickly but also tastes the best.

Chemistack™

An electronic Scrabble-like game where participants apply the Periodic Table to create various chemical formulas. This game was developed by the School of Applied & Health Science and the School of Info-Comm Technology to enhance the students' learning of Chemistry. Students learn theory, valence law and periodic table grouping concepts by tackling challenges which require them to form compounds and molecules by bonding the given elements.

Guest-of-Honour

Mr Bruce Poh
Director & Chief Executive Officer/ITE

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About ITE

The Institute of Technical Education (ITE) is a post-secondary education institution established in **1992** under the Ministry of Education. As a principal provider of career and technical education, and a key developer of national occupational skills certification and standards, ITE's **Mission** is to create **opportunities** for students and adult learners to acquire skills, knowledge and values for employability and lifelong learning. ITE's **Vision** is to be A **Trailblazer** in Career and Technical Education. Our **Values** are **Integrity, Teamwork, Excellence** and **Care**. ITE comprises the ITE Headquarters and three ITE Colleges - College Central, College East and College West. For more information, visit www.ite.edu.sg.

About Science Centre Singapore

The Science Centre Singapore is a non-formal educational institution dedicated to the promotion of science and technology among students and members of the public. As a leading Science Centre in the region, the Science Centre Singapore has twelve exhibition galleries with more than 1,000 exhibits, and another 18,000 sq metres of outdoor space showcasing the Waterworks, Ecogarden and the Kinetic Garden exhibits. The Centre also houses the Omni-Theatre — Singapore's only dome-shaped, 5-storey high theatre with a capacity of 248 seats. The Science Centre, with Omni-Theatre and Snow City, received 1.42 million visitors for FY2011/2012. For more information, please visit www.science.edu.sg.