

### ASTI Introduction

The Association of Science Technology and Innovation (ASTI) is an association of educators, scientists, industry representatives and individuals who are committed to advancing the role of the scientific community in inspiring the youth of the nation to join and excel in the world of science and other related themes. ASTI aims to help revolutionise the teaching, understanding, and awareness of the vital role science, technology and innovation play in fulfilling the economic, health and environmental requirements of the world's population. We also strive to mentor and encourage youth to seek new innovative methods and technologies that will enhance the understanding and learning of the sciences. ASTI endeavours to use Science, Technology and Innovation for the advancement of mankind and protection of the environment.

### ASTI Vision

To be the premier Malaysian Association for the promotion of education and understanding in scientific knowledge, Technological advancement and Innovational projects in both Malaysia and the World.

### ASTI Mission

The Association of Science Technology and Innovation (ASTI) provides leadership in scientific education and technical support to improve and grow awareness in all areas of science through generation, dissemination, and exchange of information and services.

### Our Projects

The Association of Science, Technology and Innovation (ASTI) is working towards empowering young people through various projects such as:

- Science Fair for Young Children (SFYC),
- Young Inventors Challenge (YIC),
- Creative and Critical Thinking Camp (CCTC)
- ASTI Outreach Programmes
- ASTI Arivom Ariviyal



### Science Fair for Young Children (SFYC)



The Science Fair for Young Children is a premier project in Malaysia for the younger generation to increase their interest in science.

Our children need to be totally involved and immersed in the learning of science and exercise their scientific skills through science based activities which are both fun and educational.

Therefore science fairs are ideal in accomplishing the objective by giving students an opportunity to learn science and develop their scientific thinking in greater depth.

The Science Fair for Young Children is an event that helps enrich and demonstrates Tamil school students' talents at a young age and to prepare them for future enhanced learning experiences in science.

The Mission of SFYC has always been clear and simple – to engage and educate Tamil school students about the quality of science, science related topics or capsules that will fascinate them with the wonders of scientific discovery and spark their interest in future scientific endeavours.



Science Fairs are ideal as they give students an opportunity to learn a scientific concept in greater depth, while simultaneously allowing them to:

- Use scientific methods to develop an understanding of scientific concepts.
- Take an open and creative approach to problem solving.
- To create/increase awareness, interest, motivation in the study of Science in School.
- Sharpen their writing skills and their ability to work in a team, to plan and execute tasks.
- Develop their soft skills such as public speaking, when they present their findings to schoolmates and judges.
- Improvement of their learning process and critical thinking based on experience in their project.
- Compete and be recognised for academic achievement – the judging process also provides students with the invaluable experience of developing poise and thinking on their feet.

### SFYC 2014

We, the organizers believe that every seed of knowledge planted in the young generation by dedicated members of the community will yield bountiful fruits in the near future.

In 2014, about 460 schools are expected to participate in the School Level Science Fair. For the Zone Level, we targeting about 300 schools to participate, therefore, over 200,000 students in all will benefits from the fair.



## Young Inventors Challenge (YIC)



Young Inventors Challenge (YIC) is a competition which requires teams of up to 5 young people (age 13-21) each to put their minds together and come up with an invention. The 2013 pilot project theme was "GREEN INVENTIONS: IDEAS ON SUSTAINABILITY". A total of 12 teams from all over the country participated in 2013, showcasing their green inventions.

Among the main aims and objectives of YIC are:

- To give an opportunity to young inventors to develop and showcase their inventions in the area of sustainability.
- To help Young inventors to experience the inventive cycle, from conceptualisation to product/prototype.
- To introduce the concept of sustainability to the participants
- To give opportunities to young adults who are inventive to promote their ideas to the outside world.

By participating in YIC, the participants would also:

- Produce an original invention and receive recognition for participating in the event.
- Develop creative and innovative thinking skills.
- Develop teamwork dynamics to solve problems.
- Use resources such as the internet and library to hone their research skills.
- Learn to document their invention project.
- Enhance self-esteem.
- Acquire public presentation and writing skills.

## YIC 2014

Thus for 2014, ASTI would like to expand the competition to wider scope based on the same theme, **GREEN INVENTIONS: IDEAS ON SUSTAINABILITY**. ASTI targeting 60 teams to participate in this effort.



## Creative and Critical Thinking Camp (CCTC)



The Creative and Critical Thinking Camp (CCTC) was designed to inculcate and introduce the concept of thinking creatively and critically when making choices in life. Both methods of logic and empirical reasoning was be introduced with simple lectures and fun activities. The objective of the project is:

- to help empower the young to think in both a creative and critical manner.

ASTI has and continues to build effective resources, guides, and know how to make this a reoccurring camp for young people across the country. ASTI believes that this program can be a platform for young to develop their creative and critical thinking capabilities which will help them be an effective person in their own community and the nation.

The pre pilot project was conducted in November 2013 and there were 36 young people who participated in the pre pilot camp. The young came from all over the nation. We were very impressed with the enthusiasm and the proactive participation from the kids.

## CCTC 2014

Thus for 2014, ASTI is targeting 3 different levels for the Camp; Primary Standard Six, Secondary School and University Students.



## ASTI Outreach Programme



In its continued effort to promote science, technology and innovation, ASTI organises and collaborates with schools/organisation in various related activities to achieve its aims and objective. Some activities where we participated are; a school science week, a Kids Carnival and Malaysia Day celebrations.

## ASTI Arivom Ariviyal



ASTI works in collaboration with Malaysia Nanban to write a Newspaper Column entitled "Ariyom Ariviyal" (Understanding Science). The article appears once a week. It reaches a very wide segment of the Tamil speaking community across the whole country.

## Contact Us

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