

# TEACHERS' BRIEFING

22 FEB 2018, TAMPINES PRIMARY SCHOOL

23 FEB 2018, SCIENCE CENTRE SINGAPORE

ORGANISED BY:



**SONY**<sup>®</sup>

SUPPORTED BY:



Ministry of Education  
SINGAPORE

# WHAT WILL BE COVERED TODAY?

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1. Objectives of SCSA
2. Categories in the competition
3. Judging Criteria
4. Examples of Toys
5. SCSA (Schools) Competition
6. SCSA 2018 Timeline
7. Pointers for Toy Submission

# OBJECTIVES OF SCSA

## X-cited

X

Cultivate

Inspire

Transform

Encourage

Discover

multiplier, x-factor, multi-disciplinary, x-traordinary  
hands-on and hand-making ability by themselves  
creativity from a young age  
science concepts or ideas into fascinating toys  
the entrepreneurial skills  
the joy for learning through creating something they  
like most – toys!

“ SCSA has the ability to **translate complex ideas** into something that young children find simple and easy to comprehend. SCSA has made science learning fun and enjoyable. ”

*Mr Jegendren Tanapal  
Yew Tee Primary School  
Diamond Award Recipient*



# CATEGORIES

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## JUNIOR WHIZKID

Primary 1 & 2 (or equivalent)

Participants will have to create any toy creation that:

- demonstrates **scientific concepts** creatively
- incorporate **bottle caps**
- To submit a **photo** of **themselves working on the toy!**

## WHIZKID

Primary 3 to 6 (or equivalent)

Participants can submit any toy creation that

- demonstrates **scientific concepts** creatively
- To submit a **journal** of the **toy-making process.**

**WORK INDIVIDUALLY OR TEAM OF  
MAX. 2 STUDENTS**

# WHAT ARE JUDGES LOOKING FOR?

By  
Dr Chew Soon Hoe  
NUS  
SCSA 2018 Chairman

# JUDGING CRITERIA

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## SHORTLISTING ROUND:

### JUNIOR WHIZKID

- Scientific Concept
- Creativity and Originality
- Sturdiness and Design
- Fulfils Requirement

### WHIZKID

- Scientific Concept
- Creativity and Originality
- Sturdiness
- Design

# JUDGING CRITERIA

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## FINAL JUDGING ROUND:

### WHIZKID

- Craftsmanship
- Problem-solving Skill
- Creative use of resources
- X-Factor

# JUDGING CRITERIA

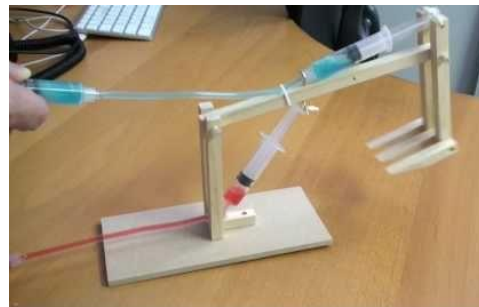
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- **Depth of Understanding**  
Scientific principle behind the toy
- **Toy-making Process**  
Contribution to the toy creation process
- **Design and Conceptualisation**  
Making and testing
- **Active Participation**  
Experience gained through building the toy
- [SCSA organisers do not endorse any SCSA training courses conducted by external trainers](#)



# COMMON TOYS - TO AVOID

- Hydraulic toys
- Cars, Boats and Aeroplanes
- Rolling can toys
- Quiz toys
- Automata
- Catapults
- Workshop toys
- Commercial toys
- Jack-in-the-box



**THINK OUT OF THE BOX!**

# DO TRY TO AVOID

- Purchased or assembled toys for DIY kits (eg. Lego, LittleBits)
- Toys using 3D-printed components



## DO TRY TO AVOID

- Similar toys from the same school (in design, mechanism employed, etc.)
- Aim to be unique!



# ADMINISTRATIVE DETAILS OF COMPETITION

# PRIZES

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**First Prize Winner** stands to go home with up to **S\$1,000** worth of cash prizes!



**Schools** producing the **TOP 3** prize winners in the WhizKid category will receive cash prizes of up to **S\$1,000** and certificates.



Schools with **most number of shortlisted toys** in each category will receive cash prize of **S\$1,000**.

# SCSA (SCHOOLS)

- **Internal school competition** organised by teachers as a prelude to the SCSA competition.
- Shortlisted entries submitted for **SCSA 2018 Competition**
- Min. **30 students** (work individually or team of max. 2 students)



# SCSA (SCHOOLS)

- During the process, students get the opportunity to build on their **confidence, determination and perseverance** through collaborative work.
- SCSA (Schools) can also be applied as part of the **Applied Learning Programme (ALP)** and **Project Work (PW)**.
- Over 50 schools in Singapore held the SCSA (Schools) in 2017.



## SCSA (SCHOOLS)

“

Over the years, we have seen our students demonstrate **self-directed** and **collaborative learning** as they explore and work on applying science concepts into their toys, while at the same time, **teachers from different subjects** such as English, Mathematics and Art have helped to impart different skills that assist in the toy development.

”

*Mdm Cheong Oi Koan  
Compassvale Primary School  
Diamond Award Recipient*

“

The children benefit by gaining **confidence** through presenting their ideas in front of a crowd.

”

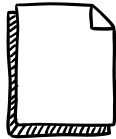
*Mr Lee Hong Khim  
Head of Department (Science)  
Pei Chun Public School*





# SCSA (SCHOOLS)

Schools involved will:



SCSA **Certificate of Participation** for **ALL** participants



Receive exclusive **SCSA tokens** (up to 40)



**Blue Ribbon Awards & Diamond Awards** to recognise teachers' efforts



**Display panel at SCSA exhibition** recognising schools



**Video montage** of school competitions at exhibition

# SCSA (SCHOOLS)

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## Friends of SCSA Award

- To recognise your school's excellent support for SCSA
- Have organised SCSA (Schools) Competition for consecutively 3 years (from years 2016 – 2018)
- certificate

# SCSA (SCHOOLS)

**Blue Ribbon Award** seeks to recognise:

- the **influence** teachers have on their students in the SCSA (Schools) Competition;
- the role that teachers have in **motivating** their students to achieve;
- the role teachers play in **guiding, mentoring, and advising** students; and
- teachers that achieve results **outside the classroom**.

Recipients will receive a **certificate**  
and **customised award**



# SCSA (SCHOOLS)

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**Diamond Award** recognises *in addition* to Blue Ribbon Award:

- Won at least **two Blue Ribbon Awards** prior;
- Emphasises the **participation** and **success** of nominated teacher's **students** in competition;
- Track record of **improving students' achievements**, and making a difference in students;
- Using **innovative out-of-classroom programme and activities**;
- **Overcame challenges** to positively impact students in competition.



# SCSA WORKSHOPS

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## 1. SCSA Design-Thinking Workshops

- 3 Venues (SCS, Tampines Primary School & Woodlands Primary)
- **Up to 8 participants per school for each session**

## 2. SCSA Teachers' Workshops

- 3 venues (SCS, Tampines Primary School & Woodlands Primary)

## 3. Science Centre Singapore Workshops

- **Physical Sciences Workshops (5 types) – Max. 40 students in each session**
- **Marble Machine Workshop – Up to 25 participants**

# SCSA TIMELINE



Mar – May	Workshops @ Science Centre, Tampines Primary School & Woodlands Primary School
<b>31 May</b>	<b>Deadline for Registration for SCSA &amp; SCSA (Schools) Internal competition</b>
4 – 6 July	Submission of Toy Entries @ SCS
August	Closing for nomination for Blue Ribbon & Diamond Awards
<b>End August</b>	<b>Final Judging Round (Shortlisted students will have to come for a half-day competition at Science centre)</b>
November	Awards Ceremony & Exhibition of Winning Toys



# REGISTRATION

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Hardcopy registration form received by mail to [upstream@science.edu.sg](mailto:upstream@science.edu.sg)

or

Submit online registration @ <http://bit.ly/2o3ny9i>

**Register by 31 May 2018!**

# TOY SUBMISSION POINTERS

- Label **ALL TOYS AND TOY PARTS** with provided sticker labels on the toys, **not on the packaging**
- Photocopied form or stickers are **allowed**



*Sticker labels should be secured **on the toy** with glue, tape, etc.*

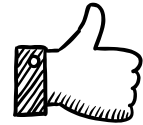
- Include **entry form and journal (for WhizKid category only)** with each toy
- Do **test out** toys repeatedly before submission!
- Ensure all parts of toy properly **secured**



# PACKAGING OF TOYS



## GOOD PACKAGING



- Each toy in a transparent ziplock bag or box **(max size A3)**
- One toy (with all its parts) per container
- Include a packing list for toys with many components/parts
- Multiple toys, in own packaging, can be placed in bigger box for transport purposes
- Remove batteries from the holders
- **Do not** use staples, tape or glue to seal the ziplock bag or box

## **WHAT TO AVOID WHEN PACKING TOYS:**

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- Different parts of toy in separate bags or box / not attached together
- Only name and class stated on toy
- Toy is larger than A3 size / stored in box larger than A3 size

# AWARD CEREMONY + EXHIBITION

- November 2018
- Announcement of winners
- Exhibition of winning entries





# ANY QUESTIONS?

More information and all necessary forms can be found at

[www.science.edu.sg/scsa](http://www.science.edu.sg/scsa)

Or email us at [upstream@science.edu.sg](mailto:upstream@science.edu.sg)

Tel: **6425 2591**