Sony Creative Science Award

@ Yew Tee Primary School

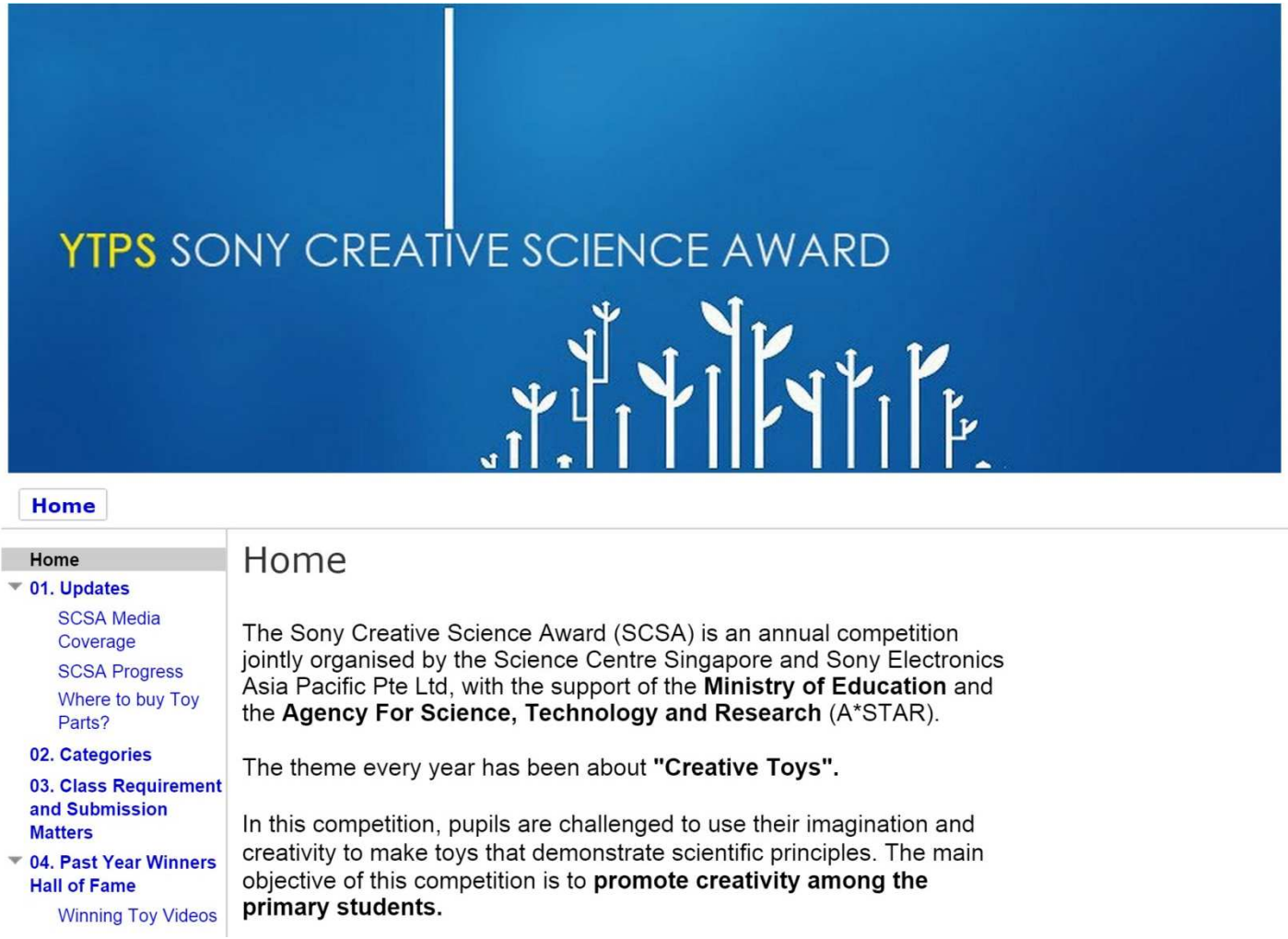
Background

- YTPS has participated in SCSA for more than 10-years.
- Appointed as teacher i/c as have shown interest in student innovation
- Toy submissions based mainly on pupil's interest.

2012

- A structured approach was in place to introduce the science of toy-making to all pupils.
- All pupils from P1 to P6 were given a proposal template to conceptualise a toy idea based on a scientific principle.
- Science teachers were tasked with providing consultation for pupils to further develop their ideas.
- An school-based internal competition was introduced.
- Won Commendation Award [Most Unique Mechanism]

YTPS – SCSA website



website to provide information on the SCSA programme

Internal Competition and Judging

getting Science department teachers and even our P and VPs involved in the judging process

Internal Winners

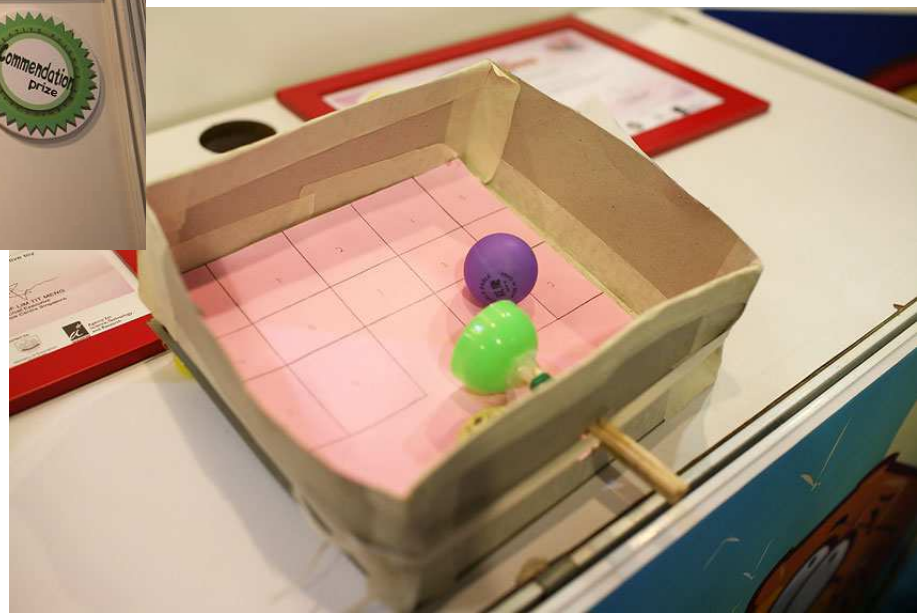
Internal winners for the SCSA-YTPS

Awards for our Internal Winners

Recognition for our top 10 winners for the SCSA-YTPS

Yew Tee Primary School

Reflective Learners, Gracious Citizens



Magnetic Pinball – Most Unique Mechanism Award
breakthrough win after 10 years of participation

Tricia Lim Xin Hui and Ng Li-Wen Hannah

2013

- Consultation period during after school hours was catered for pupils.
- Within the consultation period, there was a dedicated training group that include pupils whom have shown ideas that were unique, aligned to the theme and showed potential.
- Focus also on aesthetics rather than just functionality alone.

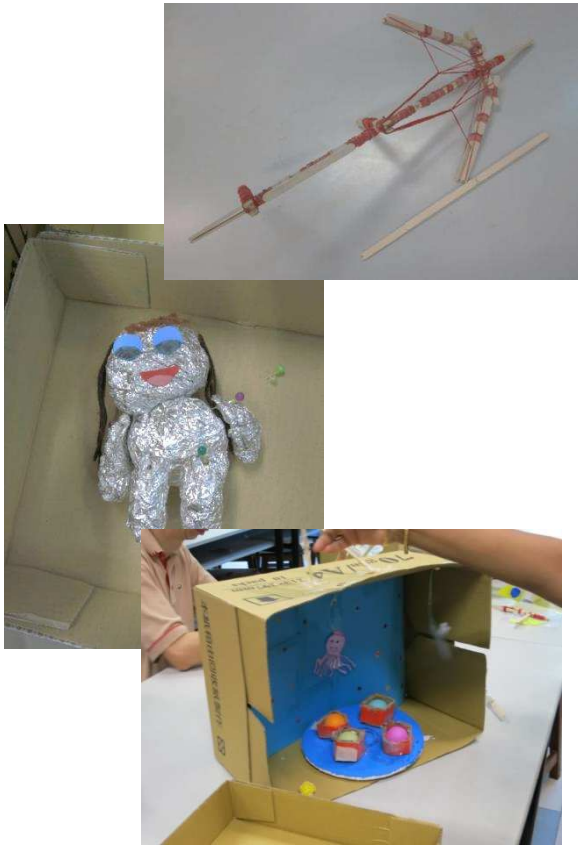
2013

- Using videos to record pupils with their toy projects. Videos to get pupils to have greater sense of ownership to their toy project, instilling confidence as well as a source of future resource for the SCSA-YTPS.
- Internal judging by Science teachers with rubrics to improve the judging process.
- Promotion of SCSA at assembly programme.

2013

- Achieved 2 Merit Awards.
- Achieved 1 Commendation Award [Best Toy Design].
- 2 Blue Ribbon Awards.

Improving Form and Functionality

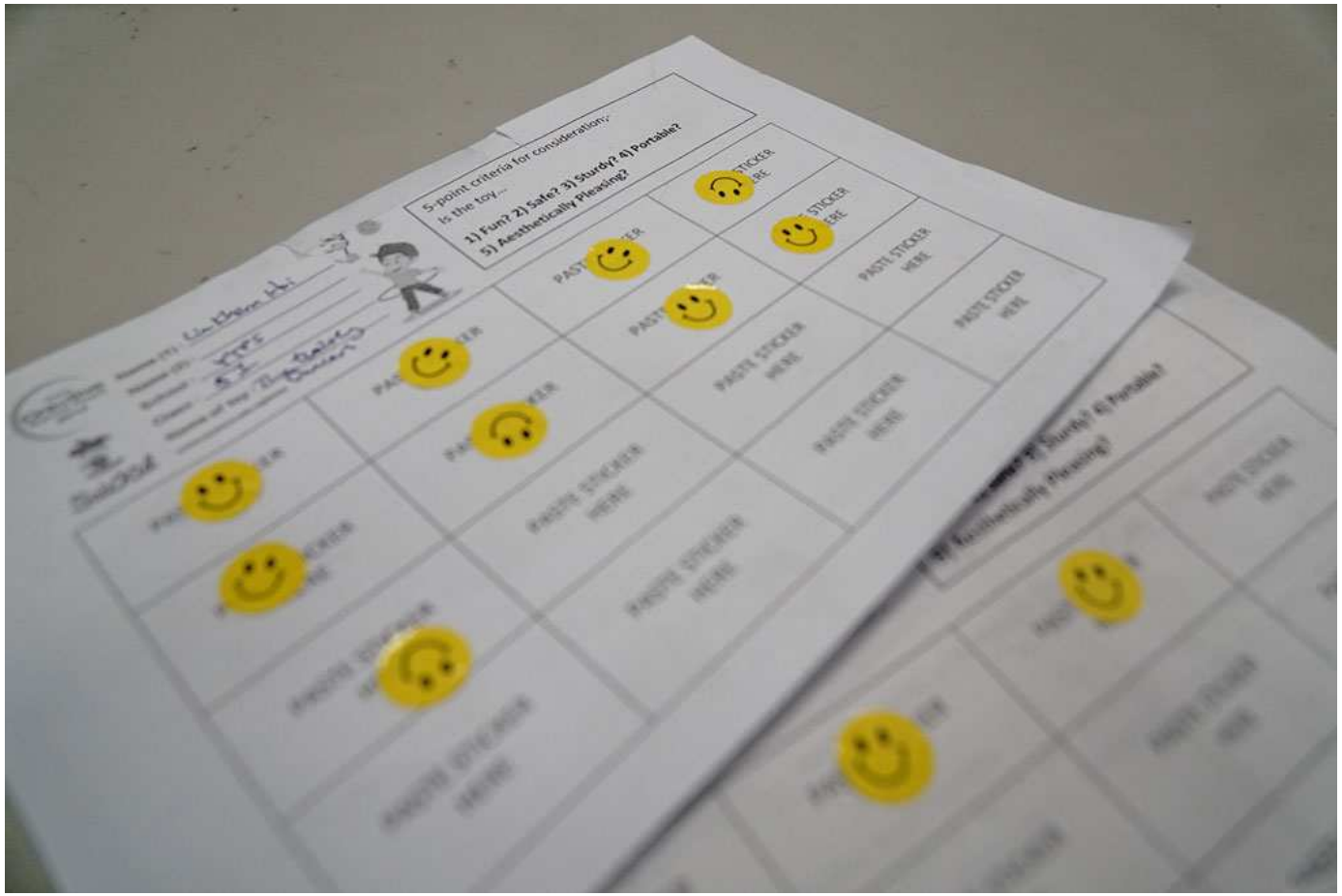


2012

2013

2014

Scoring Rubrics



Use of Video Documentation

- http://youtu.be/a61c7TIUly8

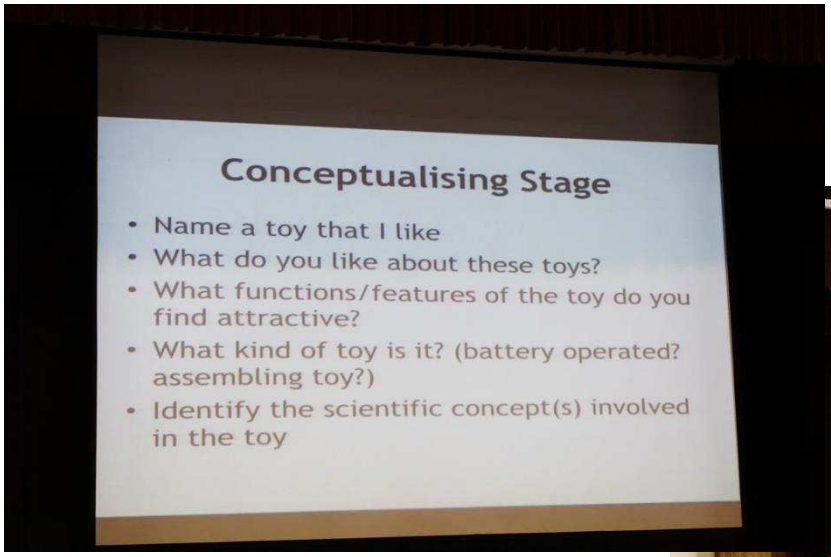
Shot at high definition video and uploaded onto YouTube

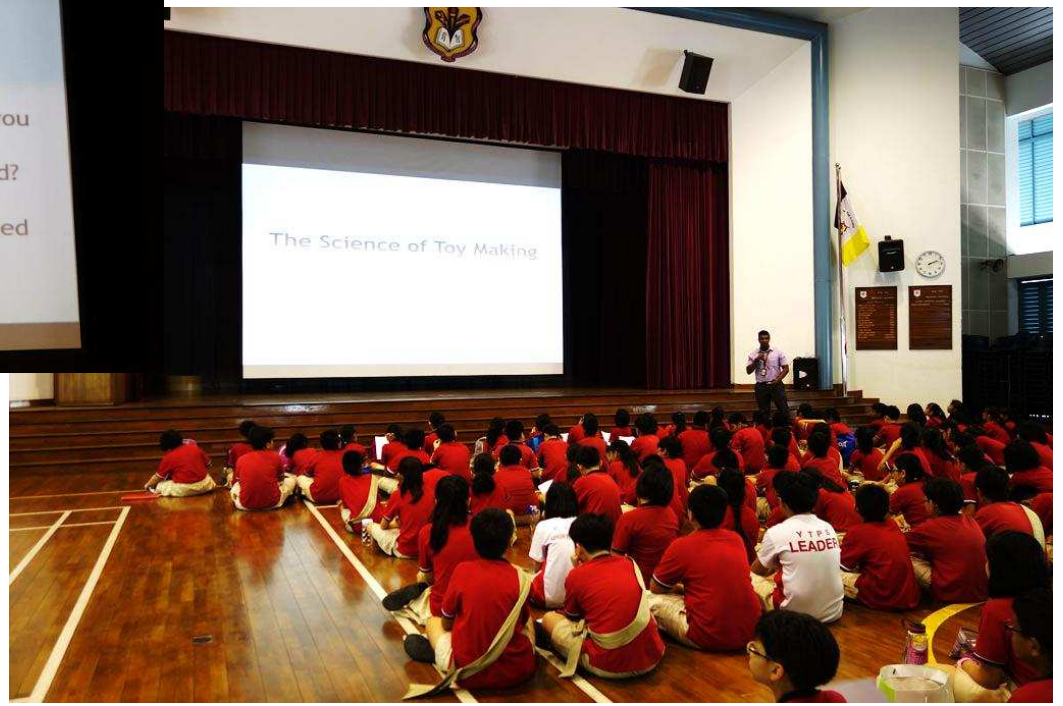
2014

- Teachers expressing interest in SCSA were recruited. Coincidentally they also have strong background knowledge in Science.
- Incorporated into 2 EC (Extra Curriculum) sessions for P5 and P6.
- Infused to Young Scientist Programme;- a programme held during recess time for each pupil to showcase their toy prototype

- Achieved 3rd for WhizKid Category.
- 2 Blue Ribbon Awards and 1 Diamond Award.
- Friends of SCSA 2012 – 2014.

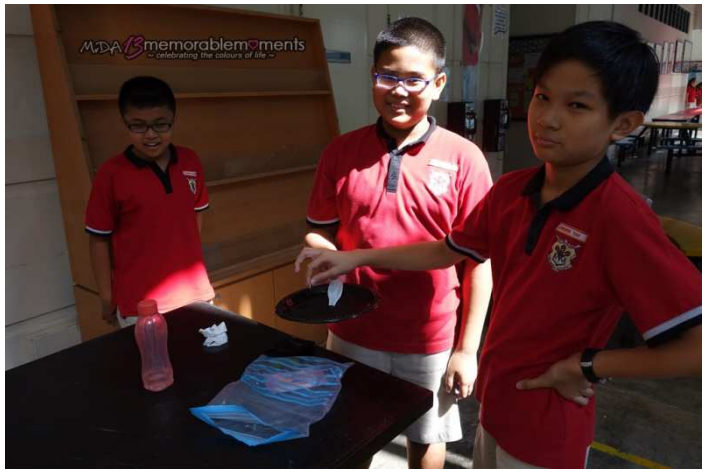
SCSA infused into curriculum





Mass lecture for P5 and P6

Young Scientist Programme



Pupils showcasing their toy prototypes during the Young Scientist Programme held during recess

Yew Tee Primary School

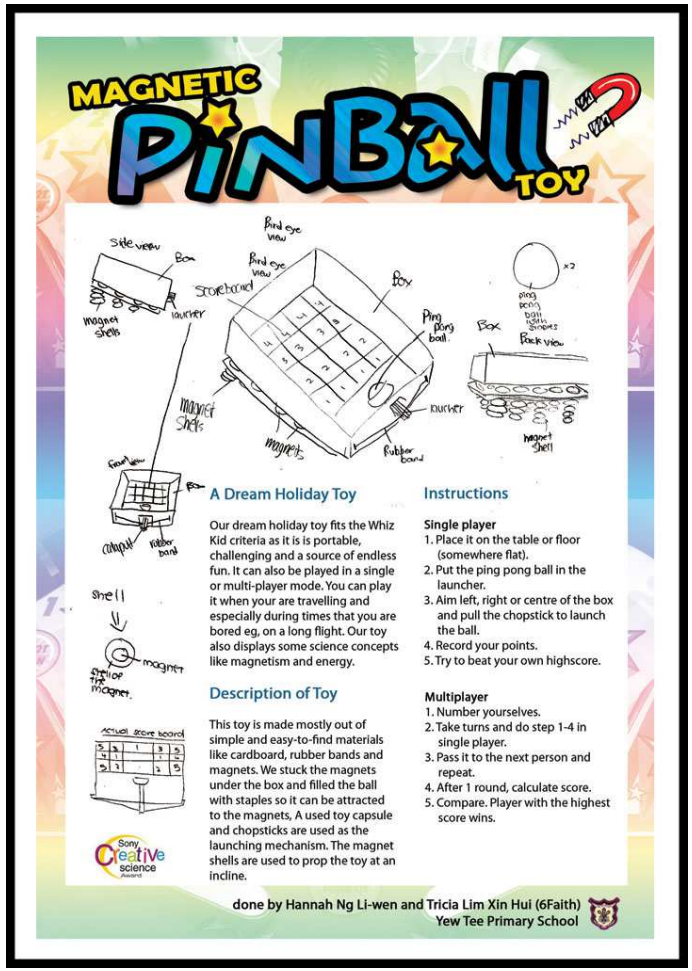
Reflective Learners, Gracious Citizens

Ashley Tan with her family and GOH for her 3rd prize in the WhizKid Category

Yew Tee Primary School

Reflective Learners, Gracious Citizens

2012



Commendation Award

[Most Unique Mechanism Award]

Yew Tee Primary School

Reflective Learners, Gracious Citizens

2013

Merit

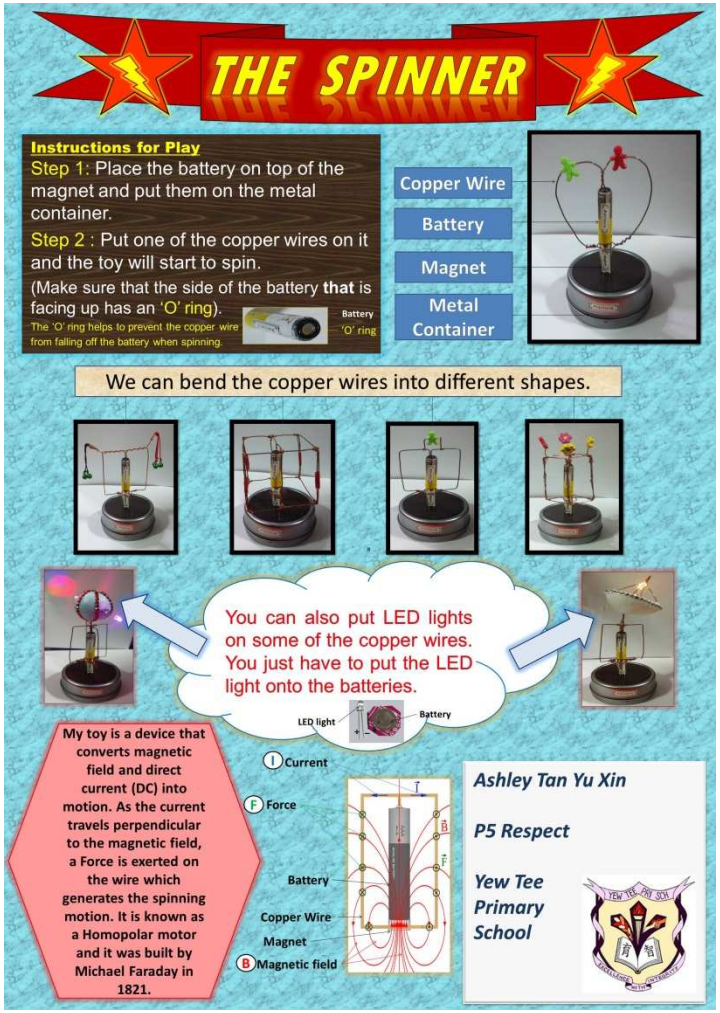
Commendation Award
[Best Toy Design]

Merit

Yew Tee Primary School

Reflective Learners, Gracious Citizens

2014



3rd @ Nationals for WhizKid Category

My Role as a SCSA Teacher i/c 2015 and beyond

- Teacher in-charge for the last 4 years.
- More of an advisory role to handhold new teachers to the programme.
- Succession planning because nobody is indispensable;- to pass on the torch to the next teacher so they can inject new ideas and give new insights to the programme.
- Refining existing structures like archiving, information dissemination and management.

My Role as a SCSA Teacher i/c 2015 and beyond

- Promote the programme and to get more involvement and participation from pupils.
- Applying and accepting new and fresh ideas by teachers in the programme eg. portfolio, communication via Edmodo, Hall of Fame, dedicated YouTube channel,
- Exploring new approach eg. Science fair

Acknowledgement

- **Mrs Janis Kok** (ex-P) **Miss Ang** (P), **Mrs Sharon Tobias** (VP), **Mdm Nooris** (ex-VP) for their guidance and advice.
- **Ms Ananthy** (HOD, Science) and **Ms Ng Yawling** (SH, Science) **Mr Low Hock Siang** (SH, Special Projects)
- **Mr Darren Wong** and **Mr Jegendren Tanapal**
- **P1 to P6 Form Teachers**
- **Mdm Moli** (Lab Technician)

"Alone we can do so little, together we can do so much"


THANK YOU