



Ministry of Education  
SINGAPORE

Preparing our young for the future:

*Nurturing the  
Joy of Learning  
and Developing  
Entrepreneurial Dare*



## Aspirations for our Students



### **Confident Person**

- Thinks independently
- Communicates effectively
- Has good inter-personal skills

### **Self Directed Learner**

- Takes responsibility for own learning
- Questions, reflects, perseveres
- Uses technology adeptly

## **Desired Outcomes of Education**

*(Revised 2009)*

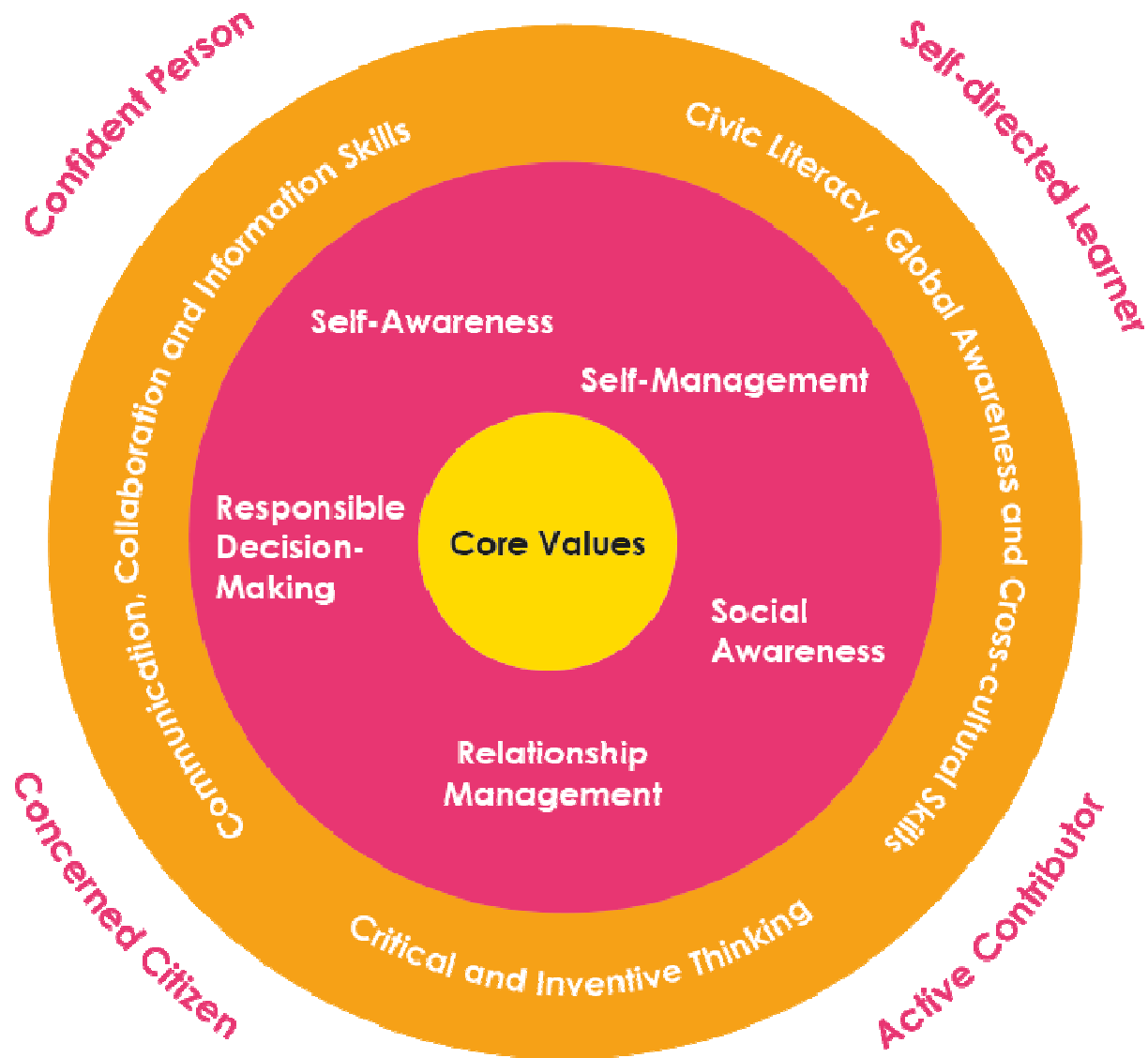
### **Concerned Citizen**

- Is informed about world and local affairs
- Empathises with and respects others
- Participates actively

### **Active Contributor**

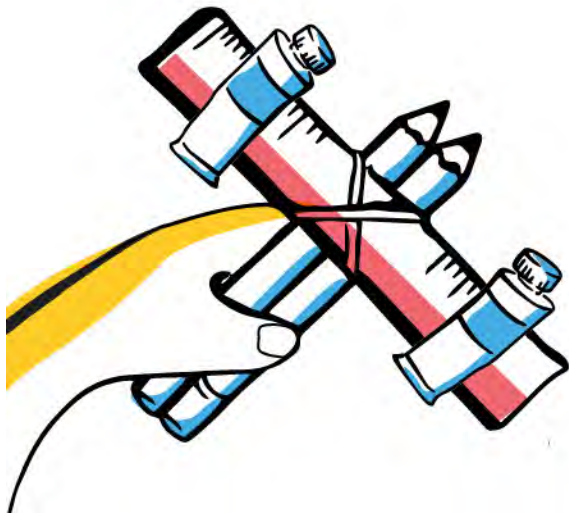
- Exercises initiative and takes risks
- Is adaptable, innovative, resilient
- Aims for high standards

# Framework for 21<sup>st</sup> Century Competencies and Student Outcomes





*Mr Ng Chee Meng  
Min (Schools)  
COS Debate, 2017*



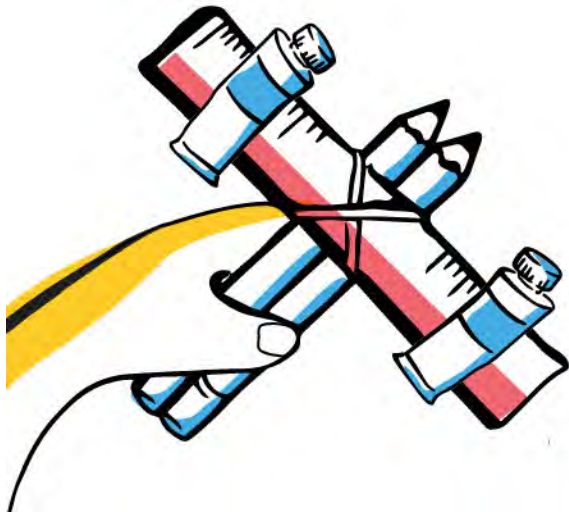
“ The Committee for Future Economy (CFE) recently outlined a roadmap on how we need to evolve to meet the economic challenges of the future. What do all these structural shifts mean for our young, and for Education?

a. In the area of knowledge and skills, our young need to develop deep skills, and to continue to update these skills and acquire new ones to stay relevant. **Lifelong learning is key.**

b. In terms of qualities and attitudes, they have to be more adaptable to re-skill themselves as needed. They have to be **more resilient** to navigate the many unknown changes and uncertainties ahead. They also have to be **more enterprising** so that they can innovate and create value. ”



*Mr Ng Chee Meng  
Min (Schools)  
COS Debate, 2017*



“ Let me share the broad directions I have set for our schools to better prepare our children for the future.

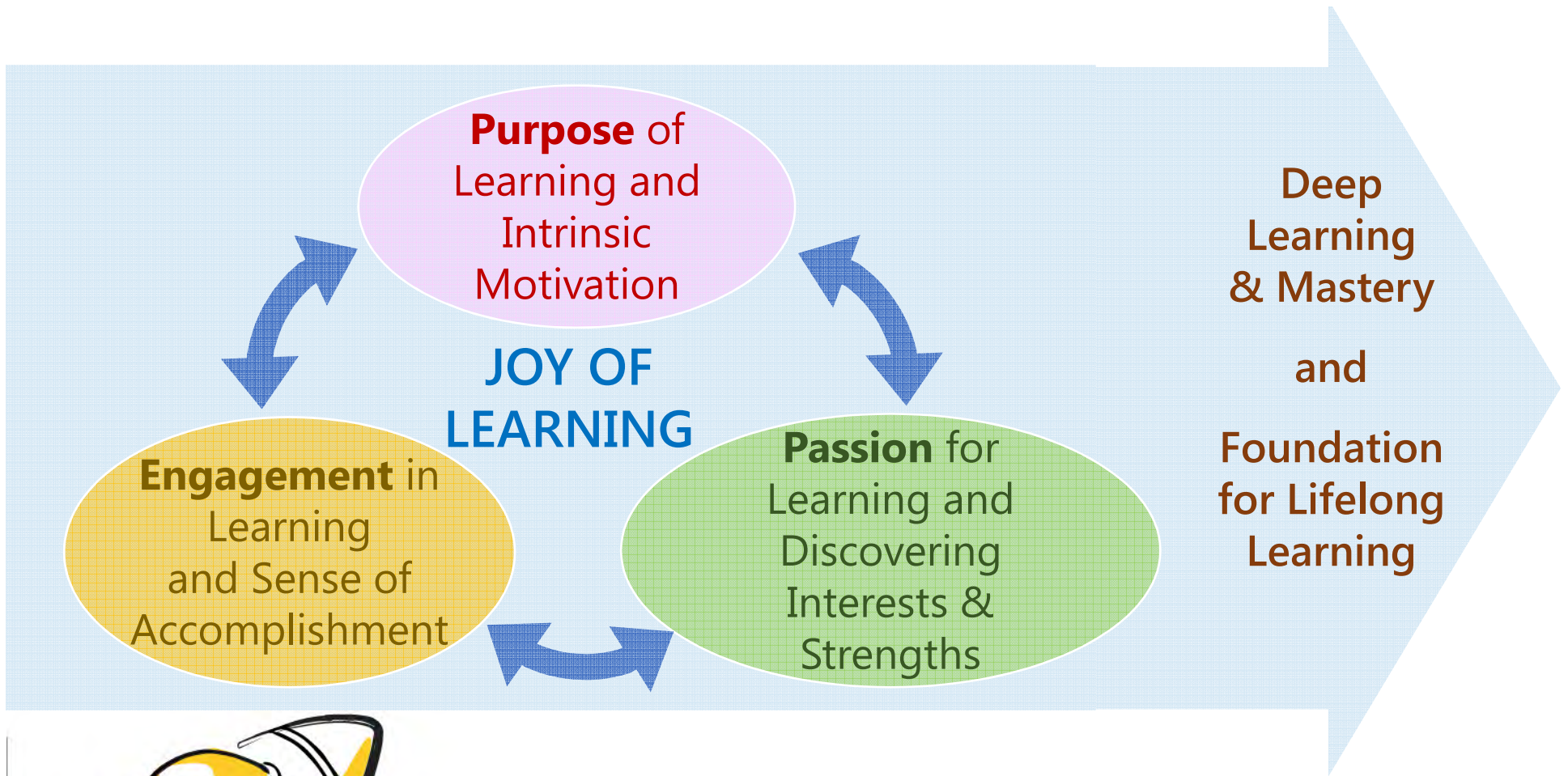
a. First, we must nurture the **joy of learning** in our children. This intrinsic motivation will drive them forward to explore and discover their interests and passions.

b. Second, develop in them an **entrepreneurial dare**, so they will go beyond the classroom, apply their learning to real world contexts, and pursue their passions. ”

What do we  
understand by:

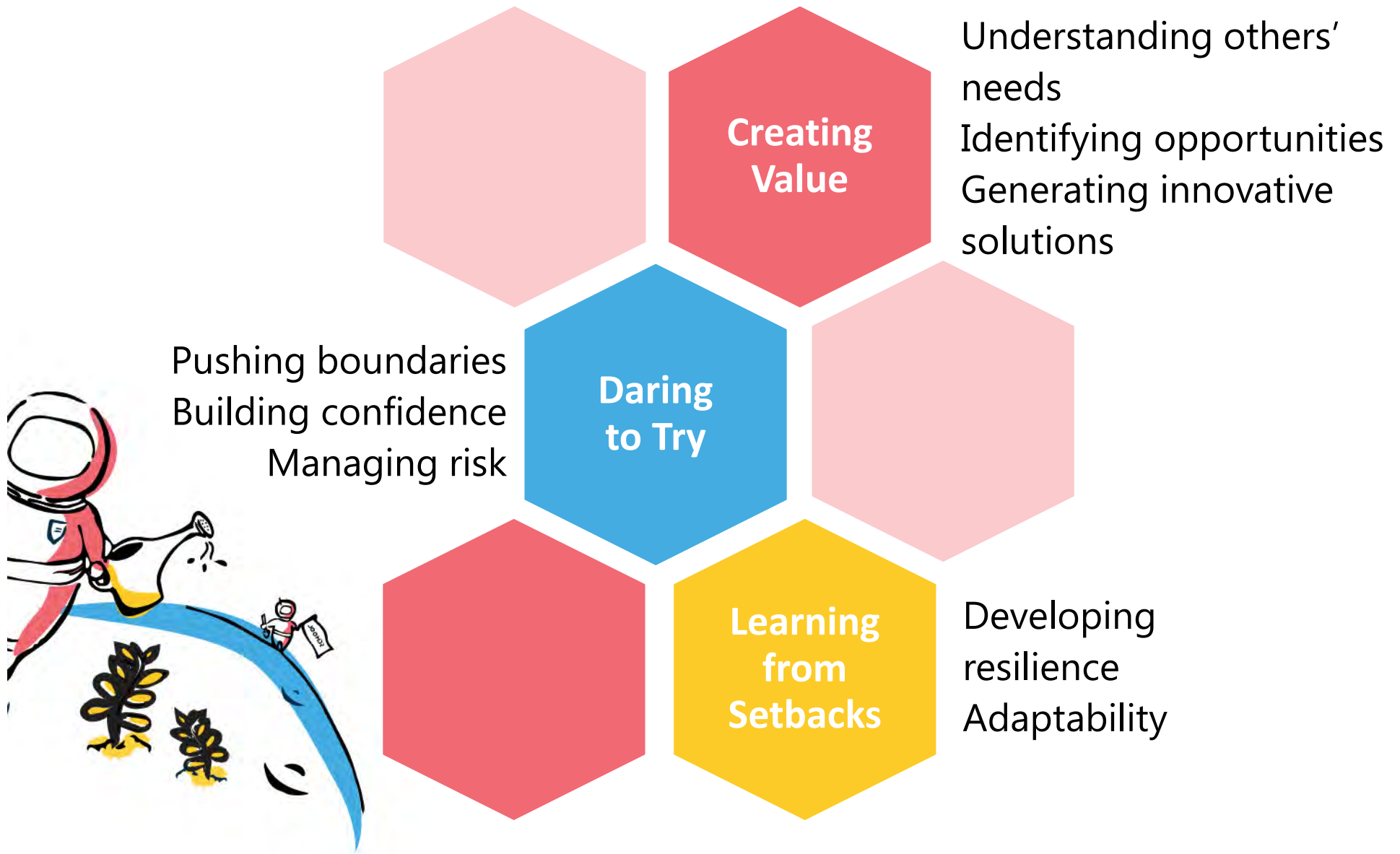
Joy of Learning and  
Entrepreneurial Dare





# What is the Joy of Learning?

# What is Entrepreneurial Dare?





# Good practices in our schools



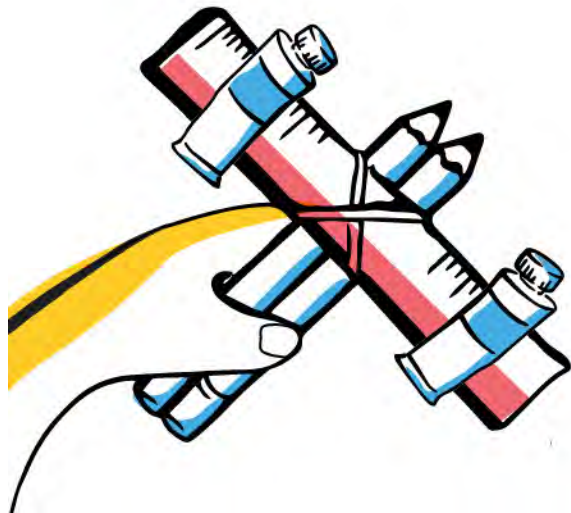
**Balanced holistic development**

**Opportunities for students to find their passion and purpose**

**Call on the village**



## Celebrating Self Discovery: North Vista Primary School



The school's 7-week Modular CCA programme provides the platform for students to nurture their varied interests as they discover and pursue their passion. Students discuss their interests with their parents in selecting their modular CCA. Every child would be able to select one Modular CCA per term from Term 1 to Term 3. This would in turn provide every child with the opportunity to experience up to 3 CCAs in a year.

MODULAR (VISTA)				
Visual & Performing Arts	ICT & Scholastic	Sports	Talents	Adventure
Arts Connoisseur	Infocomm	Softball	EL Club	*Vista Bear Cub Scouts
Choir	Innovation	Rugby	CL Media	*77 <sup>th</sup> Coy Girls' Brigade
Symphonic Band	Math	*Sports & Wellness Club (NEW!)	ML Media	*100J Boys' Brigade
International Dance	Science			
Chinese Dance	Vista Environment Club (NEW!)			



## Giving students space and time: *Tanjong Katong Girls' School*



Student Time was planned into the timetable from 2015 with the belief that parallel to the formal curriculum is an equally compelling reason for an informal curriculum. Student Time takes place every Tues morning from 7.30am-8.50am.

The seniors had led juniors in house meetings, national day sing-along sessions, while others learn how to fly a drone or practice their parade drills in preparation for National Day. Others generally use the time to catch up with peers over breakfast and consolidate learning by oneself or in groups. Some have chats with the school's Educational and Career Guidance Counsellor.



## Let Students have a Say: *Nanyang Junior College*

The JC allows students to submit applications to form Student-initiated Interest Groups (SIG), as long as its objectives are meaningful, and beneficial to its members.

Some of the SIGs formed by students include:

- Chess Club
- Conscientia (global issues)
- Diabolo
- Film and Books Society
- J-fire (all things Japanese)
- Korzy (Korean pop performance)
- Ministry of Recreational Games
- Nanyang Acoustic Movement
- Nanyang Strings Ensemble
- NYCubers (Rubrics cube)
- Public Speaking





## Learning by Doing: *Commonwealth Secondary School*



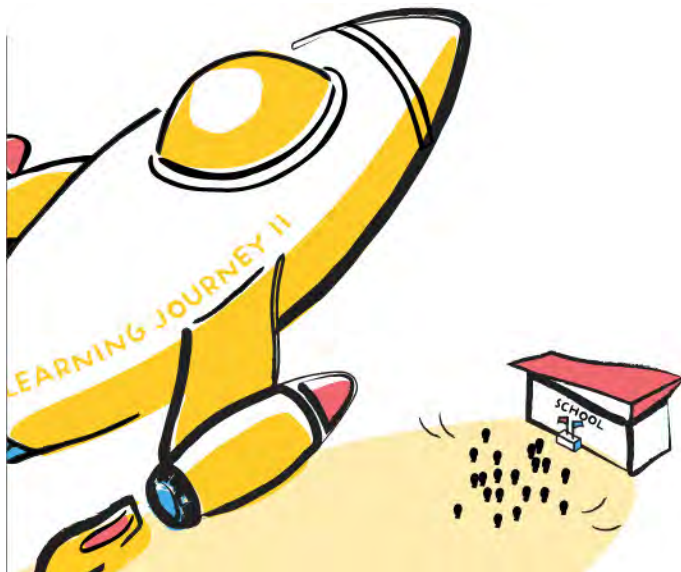
The school has a fully outfitted Makers' Studio where teachers facilitate students' design thinking to find solutions for real-world issues.

This space was made to facilitate Maker Thursdays, which was their "creative jamming session", where students get to do ad-hoc projects like:

- Cardboard Fiesta – Building of cardboard houses, vehicles, games
- Fingerboard Mini Skate Park
- Repair Kopitiam – students learn to repair common household items brought in by the public
- Wearable Electronics
- Redesigning Tamiya Cars – Small electric toy vehicles



## Calling on the Village: *Farrer Park Primary School*



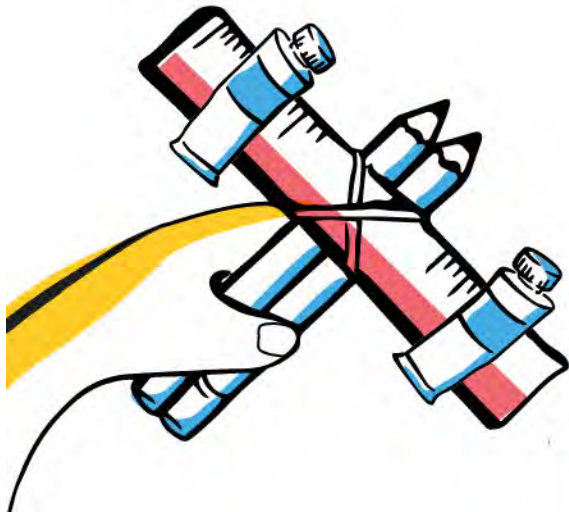
Farrer Park Primary and Pek Kio Community Club are co-located, together with a MOE Kindergarten and Student Care Centre.

The CC uses the school's multipurpose hall and the school uses the CC's kitchens for cooking classes. The CC even modified the kitchen to suit kids' sizes.





## Partnering the Community: *Changkat Changi Secondary School*



SOAR is the school's Applied Learning Programme which focuses on the Aerospace and Aviation Management Industry and develops knowledge and skills of applied learning in Science, Technology, Engineering and Mathematics in students.

The school works closely with its Parent Support Group and key partner Rolls Royce. Their students get to build gliders with their parents and attend learning journeys to learn about the aerospace industry.

In 2016, students travelled to NASA in Houston, and won awards for Excellence in Mission Design – Scientific Challenge and Commercial Presentation.



## Developing Entrepreneurial Dare through the Applied Learning Programme (ALP)



- Learning experiences situated in **real-world settings**
- Engaging students in **practical application** of knowledge through different focus areas

## ALP (Business and Entrepreneurship) – 7 Secondary schools

- Nurtures enterprising mindset - resourcefulness, creativity and perseverance
- Engages students in authentic business settings, learning from business mentors
- Develops critical thinking and decision-making skills

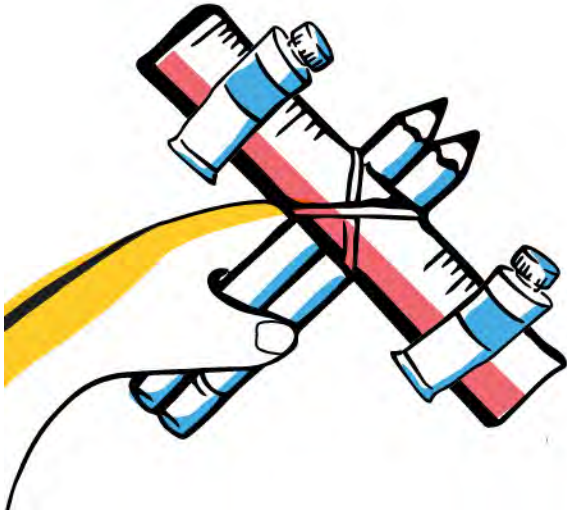


# ALP (Business and Entrepreneurship) Yuying Secondary School

*Fostering Critical and Inventive Thinking through Design Thinking  
for Enterprising Leaders*



- Engage students in deriving commercially viable solutions for social and global issues like food shortage.
- Case studies used to understand business cycles and the importance of R&D in businesses.
- Talks by entrepreneurs and learning journeys e.g. Kofu – food court management.





THANK  
YOU !

