# Concurrent Session: AGILITY IN EDUCATION

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This session focuses on Agility in educational context dealing with the volatile, uncertain, complex and ambiguous world. How do educators build resilience, flexibility and nurture the joy of learning? Being agile encourages educators and learners to have an open mind set by learning from experiences and performing better in new situations – which helps put the learners' 21st century skills into practice.

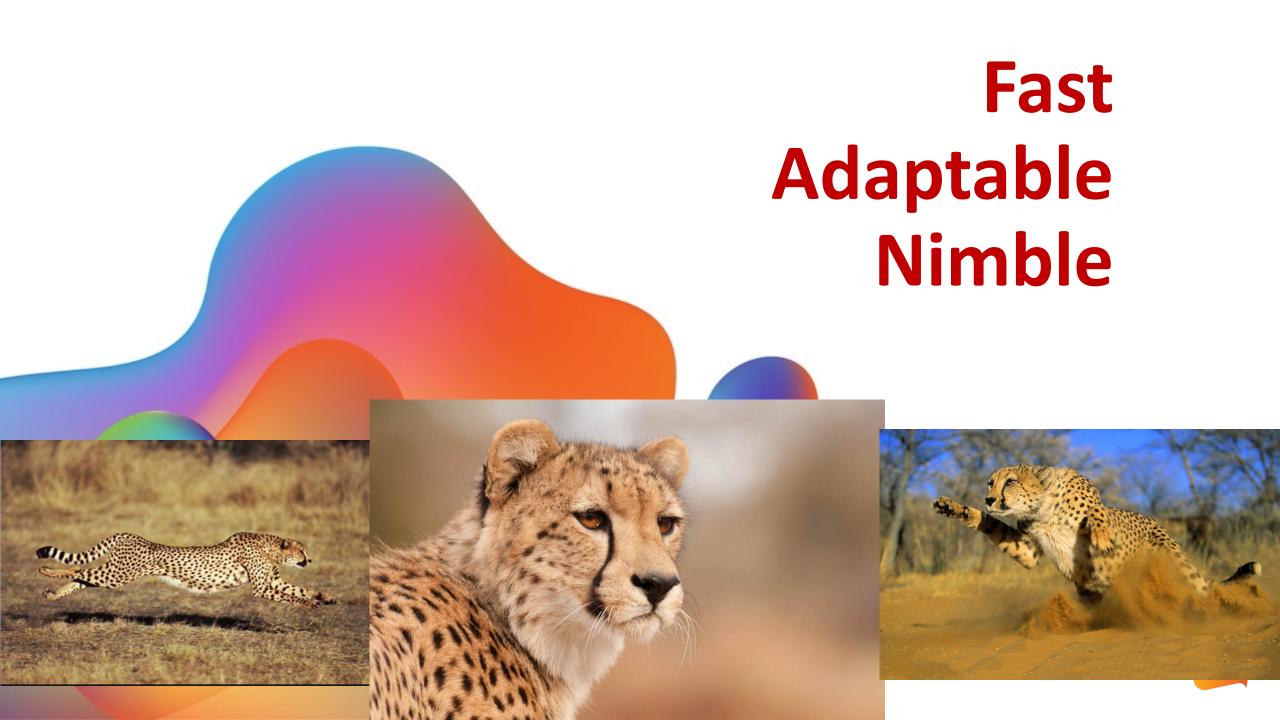
# Why do we need to emphasize 'Agility in Education'?

- 1. The VUCA world today demands agility.
- 2. Employers place value on agility.
- 3. High agility allows learners to make full use of their experiences.



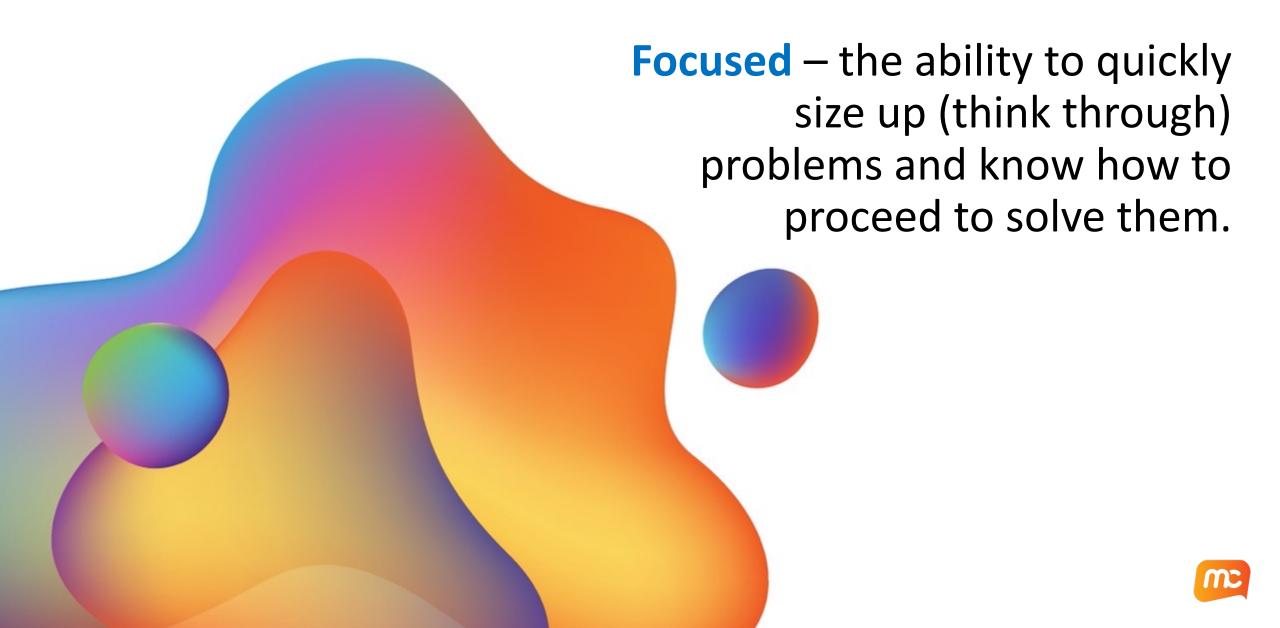
# What does 'Agility' mean?

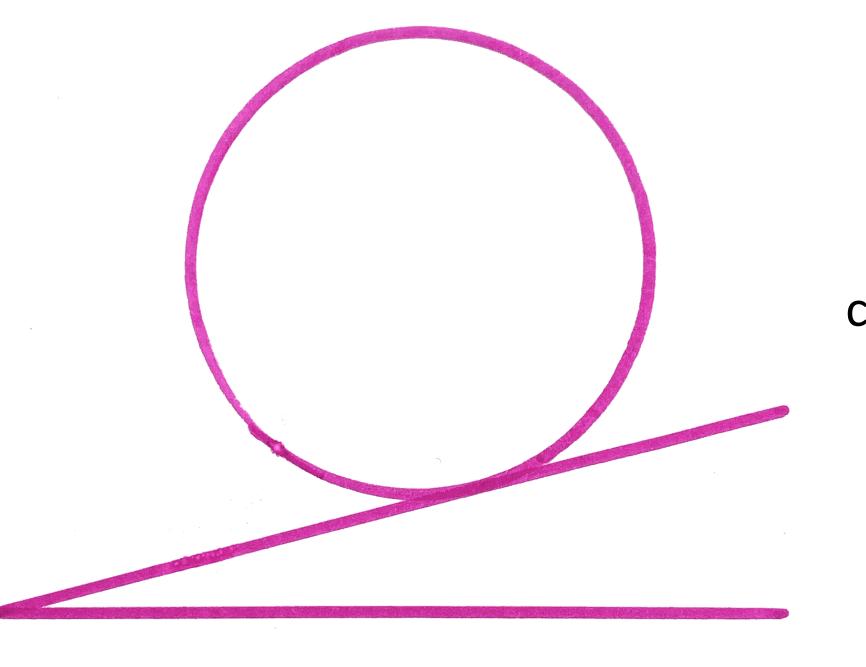






# 'Fast' in Education





A round cardboard box on a paper incline

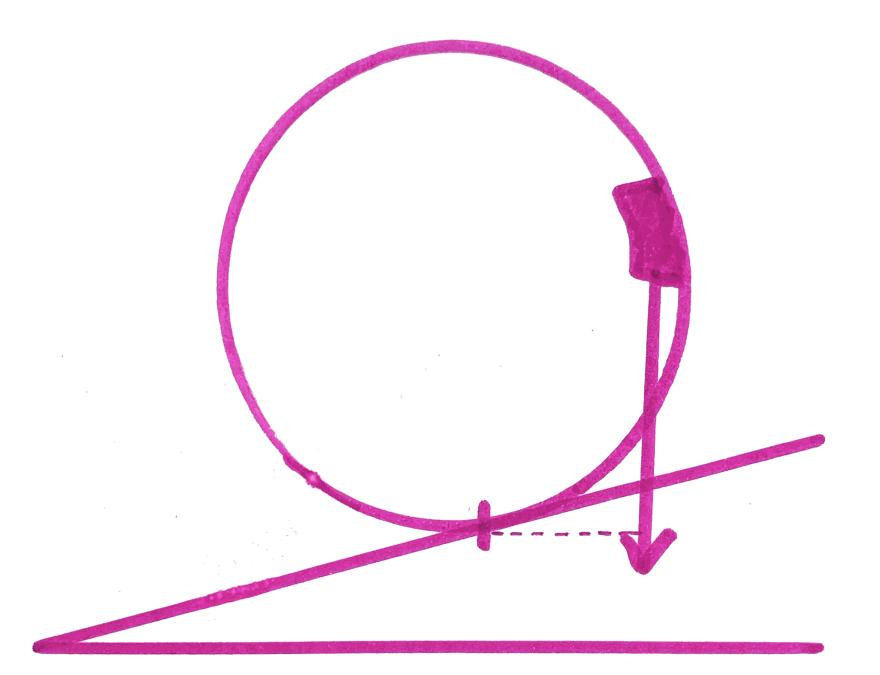
Thinking Routine: Purpose

# See-Think-Wonder (STW)

- 1. What do you see?
- 2. What do you think is going on?
- 3. What does it make you wonder?

#### **Purpose:**

To emphasize the importance of observation as a basis for the thinking and interpretation step that follows the close looking.



# **MOMENTS**

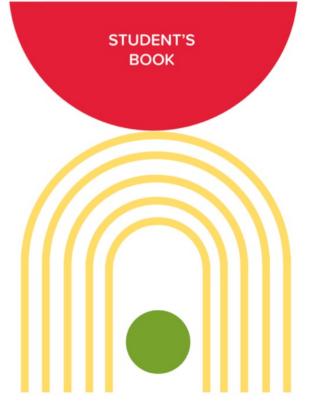
# 'Adaptable' in Education



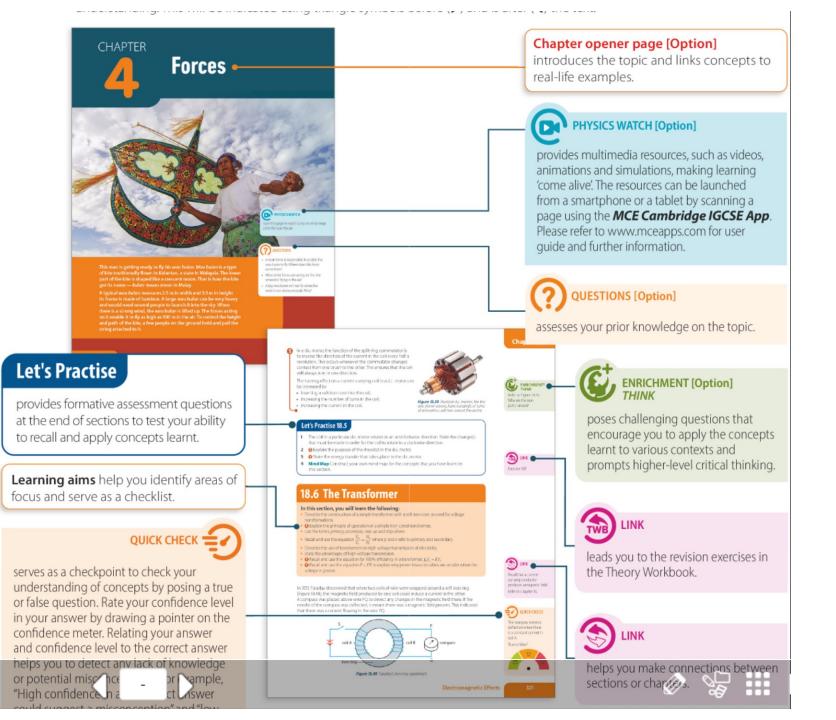
# Cambridge IGCSE™ Physics

Dr Charles Chew Dr Ho Boon Tiong Wendy Brown Dr Mark Venables









#### CHAPTER

# Measurement of Physical Quantities



taken were then plotted to monitor your growth pattern.

the brain inside it are growing normally.

Head circumference is an important measurement to monitor during the first two years of a baby's life. The average head circumference of a newborn is about 33 cm. By monitoring the

baby's head circumference, we can detect if the baby's head and

in daily life?



# **Physics Watch**





Scan this page to read an article on how unit errors can cause a disaster.



Scan this page to explore a simulation on distance-time graph.





Scan this page to watch a clip of the feather and hammer experiment.



#### **Chapter Journal**

- Rate your confidence level for your understanding of this chapter. Draw a pointer on the confidence meter to show your confidence level.
  - → If you are not confident or only somewhat confident, go back to the Student's Book and revise this chapter.



2 What questions do you still have about the concepts taught in this chapter? Write them, if any, in the space provided.

1.1 Physical Quantities

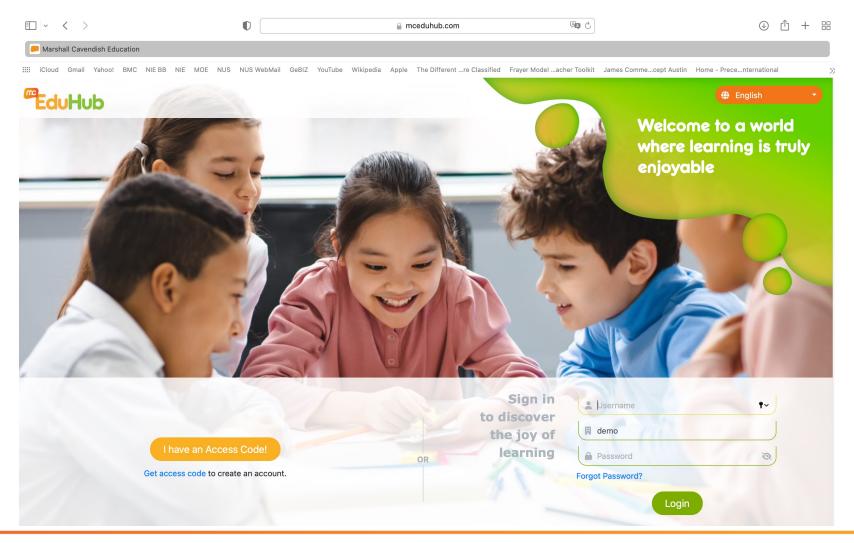
1.2 Scalars and Vectors

→ If you have written any questions, show them to someone such as your teacher who can help you.

#### Teacher's Guide – Lesson Plan

Stop motion videos	Consolidation task —group work  (suitable for blended lessons)	This strategy provides an opportunity for students to be creative in explaining a topic by creating a video. It helps students consolidate their knowledge on a process such as transfer of thermal energy.  This strategy allows students to explore the process in 3D and helps them gain a better picture of the process.  Conducting a peer-assessment at the end of the task ensures that the videos are checked for content and students are encouraged to be reflective on the scientific explanations as well as the quality of the videos.	20 90	Outline the objectives of the video. Highlight the key words and concepts you want to portray in the video. Divide students into groups to create their videos. Ask each group to showcase Encourage each group to comment on the another group's video.  Jents can work online together to produce rown video.	Ensure each group has access to the equipment to make a video.  Prepare modeling materials such as string, beads, modelling clay, coloured paper and coloured pencils that students may need in their videos.
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# www.mceduhub.com

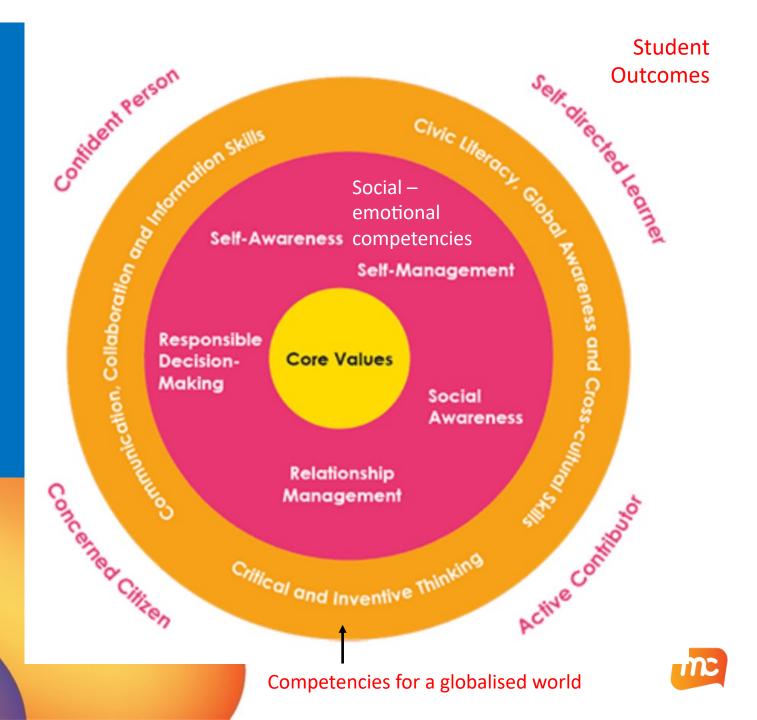




# 'Nimble' in Education



# 21<sup>st</sup> Century Competencies & Student Outcomes



# 21st Century Core Values

Respect: Our students demonstrate respect when they believe in their own self-worth and the intrinsic worth of people.

Responsibility: Our students are responsible when they recognise they have a duty to themselves, their families, community, nation and the world, and fulfil their responsibilities with love and commitment.

Resilience: Our students are resilient when they demonstrate emotional strength and persevere in the face of challenges. They show courage, optimism, adaptability and resourcefulness.

# 21st Century Core Values

Integrity: Our students demonstrate integrity when they uphold ethical principles and have the moral courage to stand up for what is right.

Care: Our students are caring when they act with kindness and compassion and contribute to the betterment of the community and the world.

Harmony: Our students uphold harmony when they promote social cohesion and appreciate the unity and diversity of a multicultural society.

# **Cambridge Learner Attributes**

Confident
Responsible
Reflective
Innovative
Engaged



Volatile, Uncertain, Complex & Ambiguous

# **VUCA** of the Future

# Volatility

- Nature and dynamic of change
- Nature and speed of change forces
- Change catalysts

#### **Uncertainty**

- Lack of predictability
- Prospects of surprise
- Sense of awareness and understanding of issues and events

# **VUCA** of the Future

### **Complexity**

- Multiplicity of forces
- Confounding of issues
- Chaos and confusion

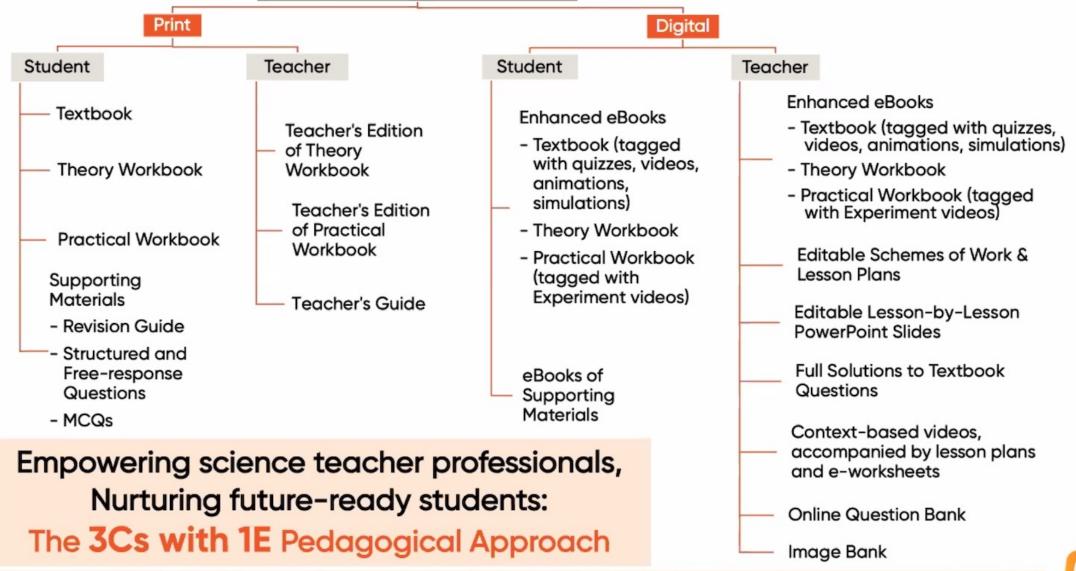
# **Ambiguity**

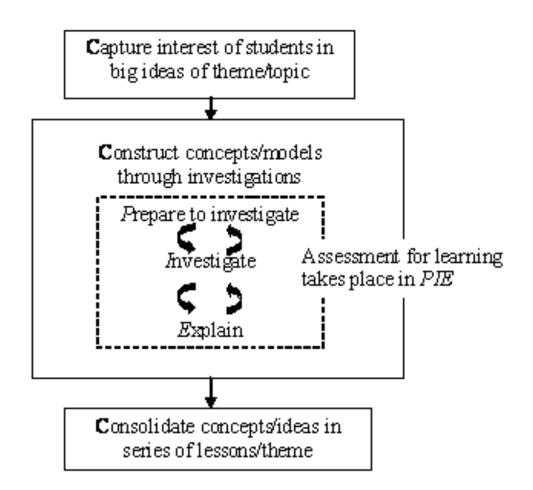
- Haziness of reality
- Potential for misreads
- Mixed meaning of conditions
- Cause-and-Effect confusion

# Failures/mistakes

Failure in itself is not a catastrophe; but failure to learn from failures definitely is!

#### **Educational Resources**





**3Cs Inquiry Framework:** 

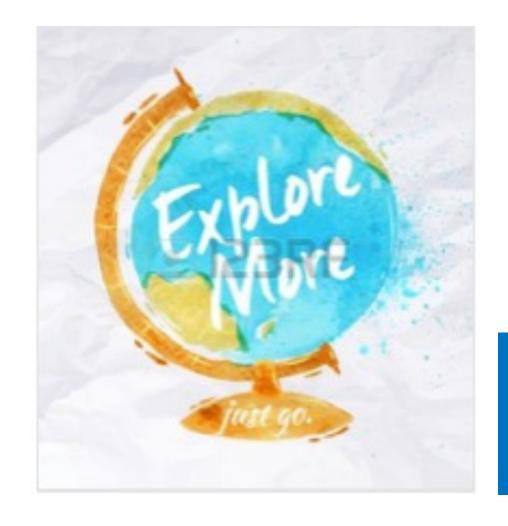
Capture Interest,

**Construct Understanding** 

& Consolidate Learning

Refined pedagogical framework after phase two study.

# **Enrichment: Providing differentiated learning** for students of high readiness



# SIX TRIBES...

Blockers, Blinkers, Bonkers, Blabbers, Builders & Blazers

# Six Tribes

**Blockers** 

Blinkers

Bonkers

Blabbers

Builders

Blazers

# Forces that shape Culture

**Expectation** 

**Opportunities** 

**Time** 

**Modeling** 

Language

**Environment** 

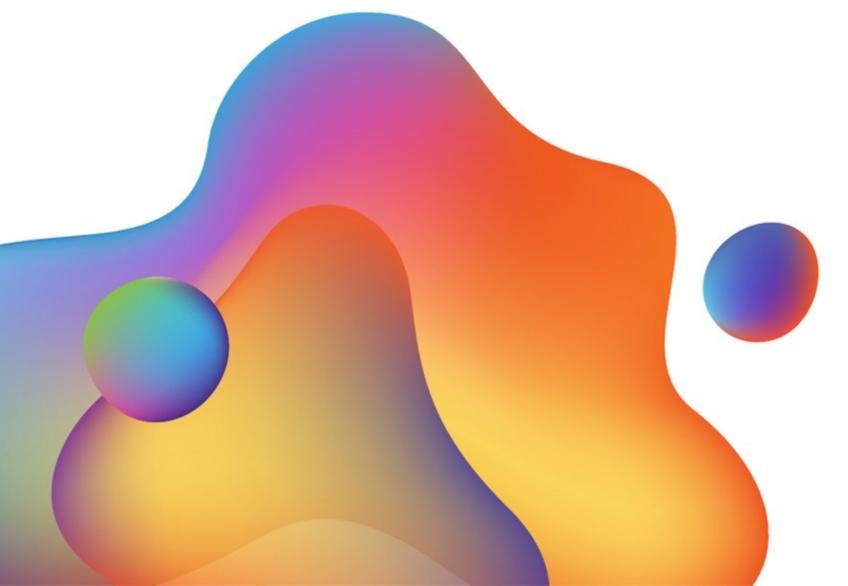
**Interactions** 

**Routines** 



"Children grow into the intellectual life of those around them" (Vygotsky, 1978)

# **CULTURE** Building



**R** – Routines

O - Opportunities

L - Language

**E** - Expectations

M – Modeling

- Interactions

T - Time

**E** - Environment





# Questions & Answers

















# Contact Dr Ho at...

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# **End of Session**





