



2026 Year-End Holiday Workshops



Call / WhatsApp 8764 8720



2026 HOLIDAY CLASSES

WHAT WOULD YOUR CHILD LIKE TO EXPLORE?

EXPERIMENT & INVESTIGATE

Dangerously Curious Science

P1-P3

Turn “why?” into discovery through hands-on science

Upper Primary Science Olympiad

P4-P6

Explore diverse science concepts through hands-on discovery

CREATE & EXPLORE TECHNOLOGY

Scratch Game Building

P3-P6

Create your own games and put maths and science into play

How AI Thinks

P5-S3

Understand how AI works and learn to question its answers

Raspberry Pi Pico

P5-S3

Bring code to life with sensors, motors and smart devices

EXPLORE IDEAS & CULTURE

World Scholar's Cup Discovery Camp

P3-S3

Explore big ideas. Debate boldly. Write persuasively.

Chinese Culture Quest

P3-P6

Discover the joy of Chinese through stories, games and creation

MATH: EXPLORE & CHALLENGE

Creative Math

P1-P3

Stretch your thinking with puzzles and playful problem-solving

P3/P4 Math Olympiad

P3-P4

Stretch your thinking with puzzles and playful problem-solving

NMOS / DSA Math

P5-P6

Build the rigour and flexibility for demanding maths challenges

AMC8 Walkthroughs

P5-S2

Discover the thinking behind AMC 8 solutions

MATH: GET READY FOR SCHOOL

School Math Bridging

P4-S3

P4, P5, PSLE, S1, S2, S3 “Get Ready for School” primers

PLAY & SOLVE

Rubik's Cube for Beginners

Any Age

Learn the moves that turn a scrambled cube into a solved one

Chess for Beginners

Any Age

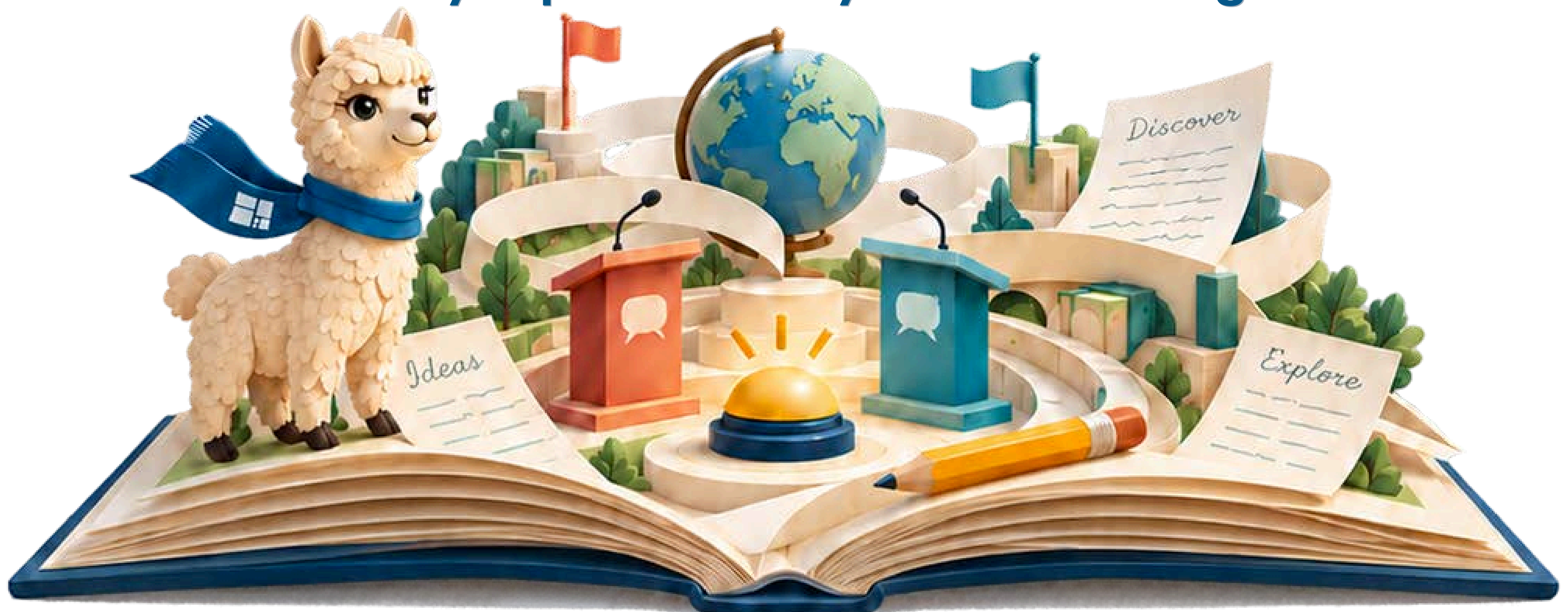
Think ahead, outwit opponents and test your skills



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2026 YEAR-END HOLIDAY CAMPS WSC DISCOVERY CAMPS

Think widely. Speak boldly. Discover together.



A first taste of the World Scholar's Cup

Debate, writing, team challenges and big ideas beyond the school syllabus. For newcomers and students already keen to explore WSC.

WHAT WILL THEY EXPERIENCE?



TEAM DEBATE

Build a case, respond to different viewpoints and practise speaking with confidence.



COLLABORATIVE WRITING

Explore ideas together, then turn them into a piece of writing of their own.



SCHOLAR'S CHALLENGE

Investigate questions across science, history, literature, art, music and more.



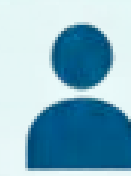
SCHOLAR'S BOWL

Connect clues, think on your feet and tackle live quiz questions as a team.



LEARN WITH OUR TOC PARTICIPANTS

Some of our Tournament of Champions participants will help with activities and share their WSC experiences.



Led by Garry,
founder of Avocado
Lab.

TWO CAMPS. DIFFERENT TOPICS. MORE TO DISCOVER.

Every camp explores different topics. Join one or both.

CAMP A
15-16 DEC 2026
Tue-Wed

CAMP B
21-22 DEC 2026
Mon-Tue



9am-3pm daily | 2 days | 12 hours per camp
(including a 1-hr lunch break daily)



\$600 per camp

Lunch, snacks &
ice cream provided



For P3-S3 students in 2027
No prior WSC or debate experience needed



ENQUIRIES & REGISTRATION

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2026 YEAR-END HOLIDAY WORKSHOPS

A Very Curious CHRISTMAS

Science mysteries. Engineering challenges. Surprising discoveries.

1

THE CHRISTMAS CASE FILES

Think like a detective. Investigate like a scientist.

Unravel a festive mystery through clues, careful observation and scientific reasoning. Explore possible explanations, question assumptions and weigh the evidence.



2

SANTA'S SCIENCE & ENGINEERING LAB

Big problems. Creative minds. Clever solutions.

Tackle practical design challenges, explore scientific principles and test imaginative solutions. Discover how experimentation and reasoning help scientists and engineers overcome obstacles.



3

THE SCIENCE BEHIND THE SURPRISE

What looks like magic might be fascinating science.

Make predictions, explore surprising phenomena and uncover the science behind them through interactive demonstrations, discussion and discovery.



P1–P3 in 2027
3–5pm

P4–P6 in 2027
5–7pm

Both age groups explore the same themes. P4-P6 takes the science further with more advanced concepts and deeper reasoning. Choose one, two or all three themes. \$140 per student, per 2-hour class

DECEMBER 2026 DATES

The Christmas Case Files

21 or 28 December

Mondays

Santa's Science & Engineering Lab

22 or 29 December

Tuesdays

The Science Behind the Surprise

23 or 30 December

Wednesdays

Enquiries & registration



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2026 YEAR-END HOLIDAY WORKSHOP

OUR FLAGSHIP 30-HOUR MATH OLYMPIAD PROGRAMME

NMOS/DSA

For P5–P6 students in 2027

P5: NMOS preparation

P6: DSA Math/STEM selection preparation



Built around real NMOS questions
Carefully selected past questions from the Preliminary and Special Rounds.



Recognise the idea behind the question
Learn how the same mathematical principle appears in different settings.



Targeted challenge for DSA Math/STEM
Demanding, non-routine problems at a level suited to DSA preparation.



A more powerful mathematical toolkit
Develop efficient methods and understand when and why they work.



High-energy, vibrant classes
Lively teaching and active participation make challenging maths exciting to tackle.



A structured booklet to revisit
Topic-organised notes and questions for revision and continued practice.

Number theory • Geometry • Logic & reasoning
Ratio & speed • Combinatorics

CHOOSE ONE PART A + ONE PART B

Mix and match any A option with any B option.

PART A • 15 hours • 5 mornings

23 – 27 November
OR
7 – 11 December

PART B • 15 hours • 5 mornings

30 November – 4 December
OR
14 – 18 December

9am–12 noon daily • Monday–Friday
Part A + Part B = 30 hours over 10 mornings

Full programme: \$1,500 per student, including both parts.



ENQUIRIES & REGISTRATION

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HOW AI THINKS

How machines learn, create, reason and act.

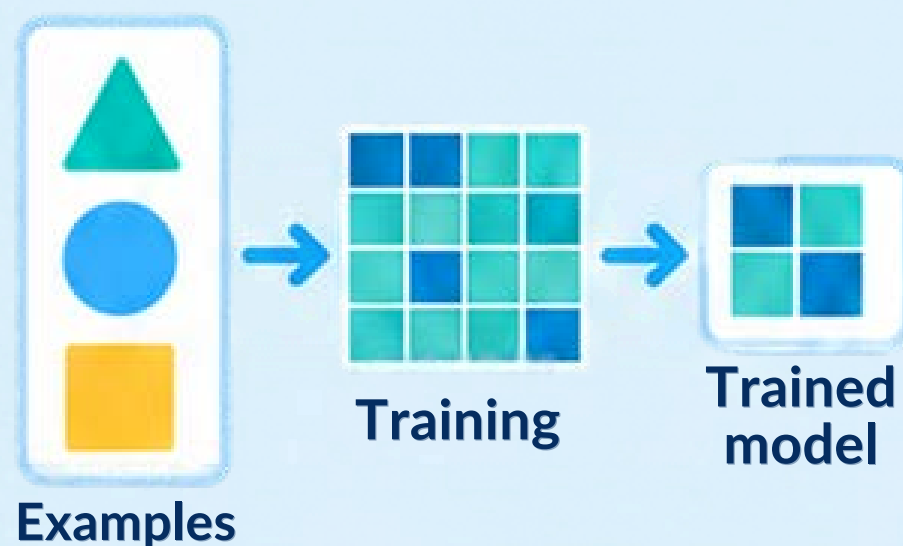
Understand the science behind ChatGPT and modern AI.

Investigate training data, algorithms and models through practical experiments, demonstrations and discussion.



1 TRAIN AN AI MODEL

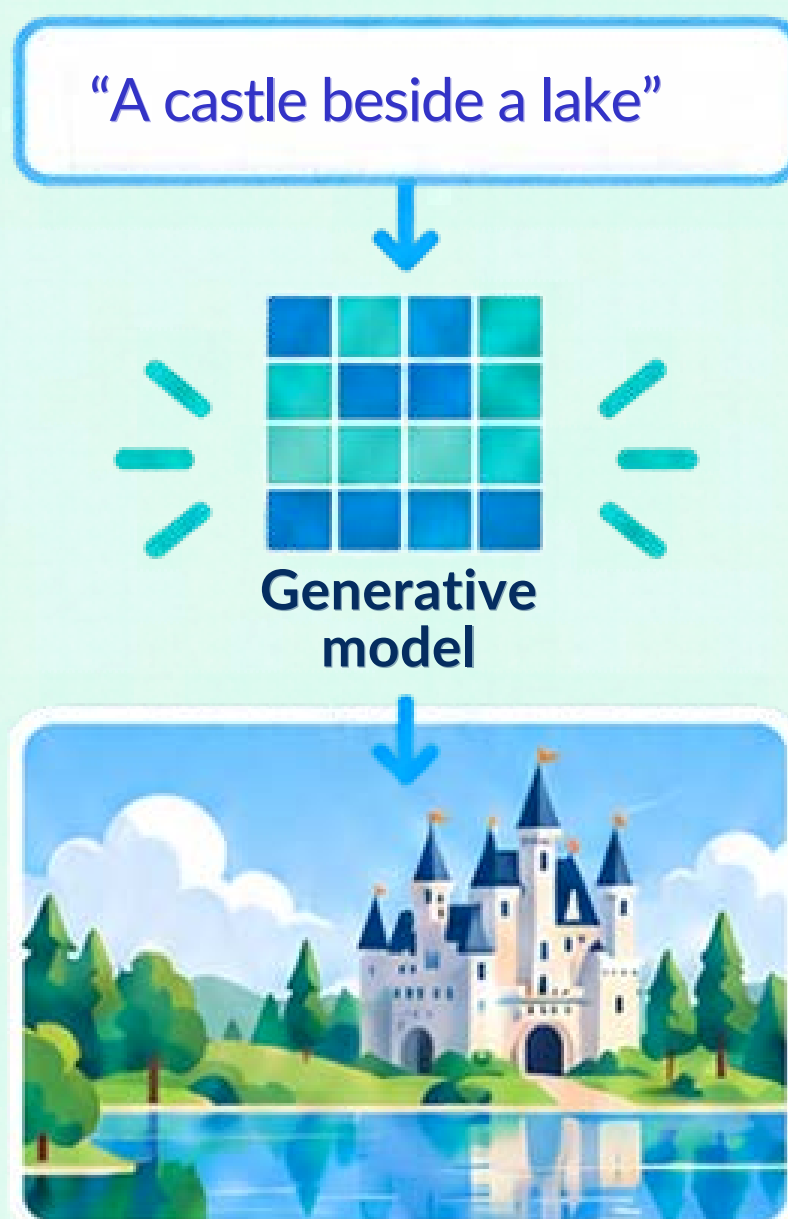
Explore data, algorithms and models. Train an image recognition model and test how well it generalises.



Train an image classifier, test where it fails, and investigate how language models generate text

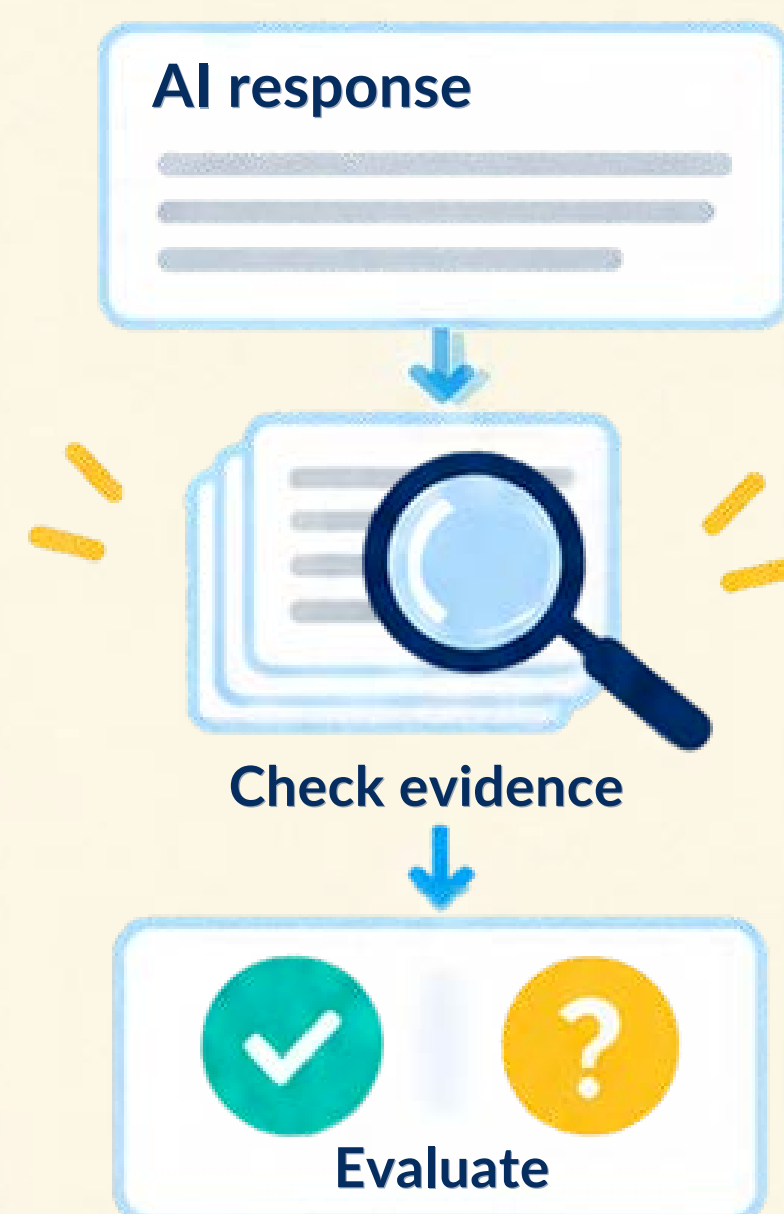
2 EXPLORE GENERATIVE AI

Explore tokens, large language models (LLMs) and text generation. Experiment with generative AI.



3 THINK CRITICALLY ABOUT AI

Examine reasoning models, AI agents and alignment. Investigate hallucinations, bias and the limits of AI.



THE INSTRUCTOR Dr Wu Yonghui

Former Principal Scientist at A*STAR, with over 24 years of experience in data science, machine learning and AI. Her research and programming background connects foundational ideas to real-world applications.



CHOOSE ONE RUN

9–10 Nov 2026 | 16–17 Nov 2026 | 7–8 Dec 2026



9am–12pm daily | 6 hours over 2 days



P5–S3 in 2027 | No coding background required



\$300 per student



Enquiries & registration:
WhatsApp

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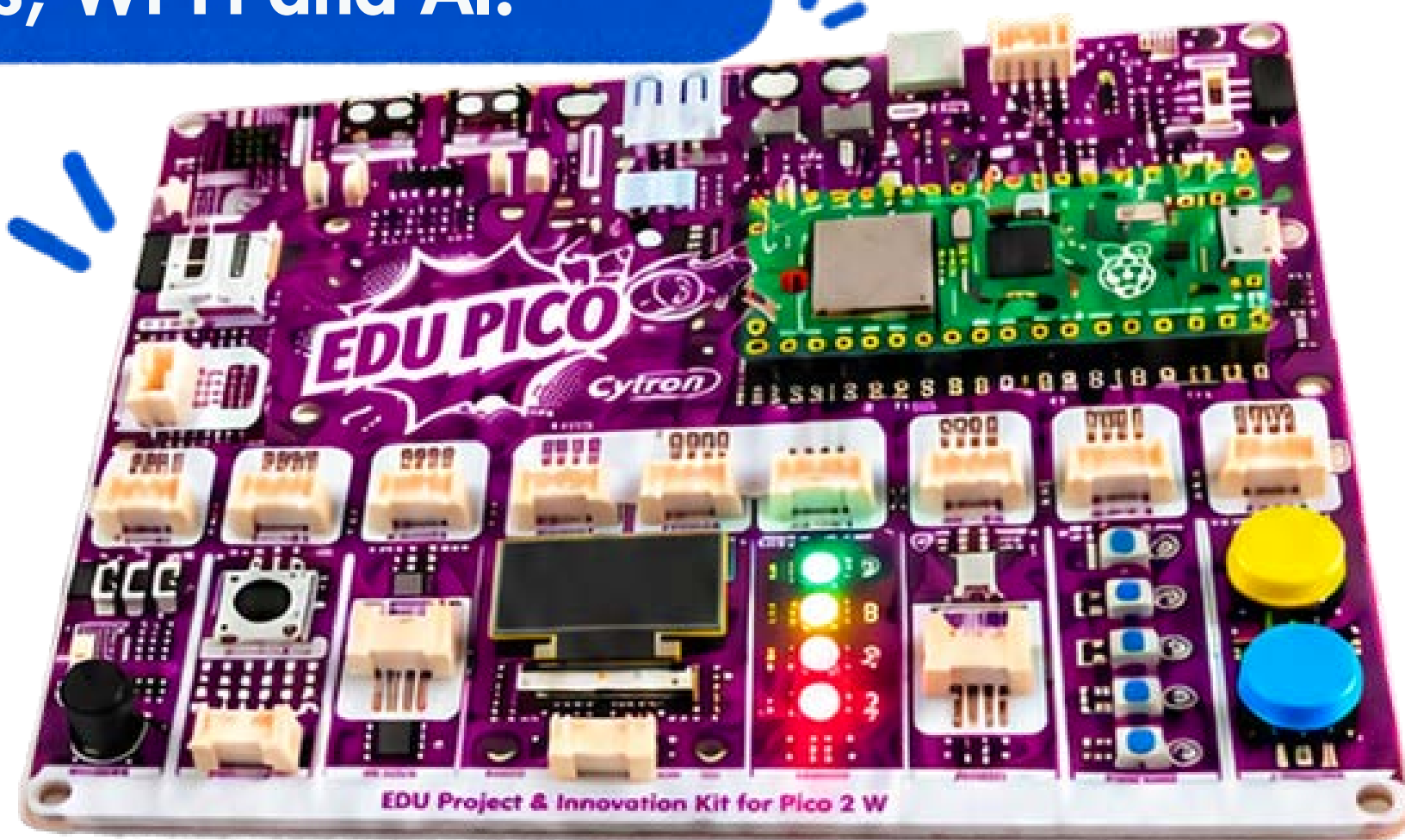


RASPBERRY PI PICO

Code smart devices with sensors, Wi-Fi and AI.

Explore how code turns sensor input into a response. Learn **CircuitPython** fundamentals, inspect live sound data and troubleshoot working systems.

Students will bring home the entire kit.
(Worth \$110)



PROJECT HIGHLIGHTS

Hands-on mini projects to build real-world skills.
Projects introduce key concepts and may be adapted based on time and interest.

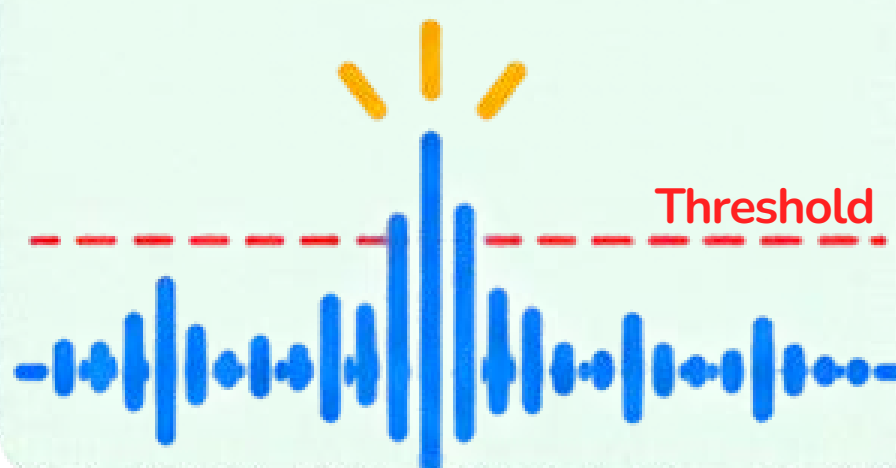
1 GESTURE-CONTROLLED LIGHT

Control RGB lights with gestures and adapt brightness to ambient light.



2 CLAP-CONTROLLED LIGHT

Visualise sound and tune clap detection to reduce false triggers.



3 SMART SECURITY ALARM

Use proximity sensing to trigger lights, sound and display alerts.



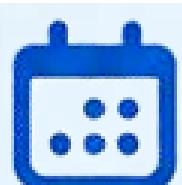
4 PHONE REMOTE CONTROL

Control LEDs from a phone browser over a local Wi-Fi network.



5 AI-CONNECTED STATUS LIGHT

Turn Gemini text analysis into coloured LED feedback.



CHOOSE ONE RUN

11-13 Nov 2026 | 18-20 Nov 2026 | 9-11 Dec 2026
9am-3pm daily | Lunch 12pm-1pm
15 hours over 3 days



P5-S3 in 2027 | Maximum 4 students



\$690, inclusive of hardware



Notebook computer required.
No prior experience needed.



YOUR INSTRUCTOR: DR WU YONGHUI

Former Principal Scientist at A*STAR, with over 24 years of experience in data science, programming and AI.
She connects code and sensor data to practical applications.



ENQUIRIES & REGISTRATION

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2026 YEAR-END HOLIDAY WORKSHOP • 年终假期工作坊

CHINESE CULTURE QUEST

华语奇妙之旅

Help your child discover the joy of Chinese through stories, games & hands-on creation.

在故事、游戏与动手创作中，发现华语的乐趣。

DAY 1

CHARACTER DETECTIVES • 汉字侦探

- Explore pictographs, solve character riddles and design creative Chinese characters.
- 探索象形字的由来，挑战字谜与文字解密，设计创意汉字。
- Take home: character artwork & an exploration booklet.
- 带回作品：创意汉字作品与汉字探险手册。



DAY 2

STORIES & FESTIVALS • 故事大冒险

- Act out idiom stories and discover the traditions of Chinese New Year, Mid-Autumn Festival & Dragon Boat Festival.
- 演绎成语小剧场，认识春节、中秋节与端午节的故事和习俗。
- Create: an idiom comic or festival-themed artwork.
- 创作成果：成语漫画或节日主题作品。



DAY 3

CULTURE AROUND US • 文化小达人

- Discover Singapore Chinese heritage, create a personal culture booklet and present your discoveries in Chinese.
- 认识新加坡华人文化，制作《我的文化小册子》，用华语分享自己的发现。



WHY CHILDREN WILL LOVE THIS QUEST

孩子爱上的文化探索

- Riddles to crack • Stories to perform • Creations to take home
- 破解汉字谜题 • 演绎精彩故事 • 带回创意作品



CHOOSE ONE RUN • 任选一期

23-25 NOV 2026

Mon-Wed • 星期一至三

30 NOV-2 DEC 2026

Mon-Wed • 星期一至三

Both age groups available in each run • 每期均设两个年龄组

P3 - P4 IN 2027 • 2027年小三至小四
9am-12 noon • 上午9时至中午12时

P5 - P6 IN 2027 • 2027年小五至小六
1pm-4pm • 下午1时至4时



3 days x 3 hours = 9 hours
三天，每天三小时，共九小时



Fee: \$450 per child, per run
每位学员每期 \$450

CALL / WHATSAPP TO REGISTER • 致电 / WHATSAPP 报名



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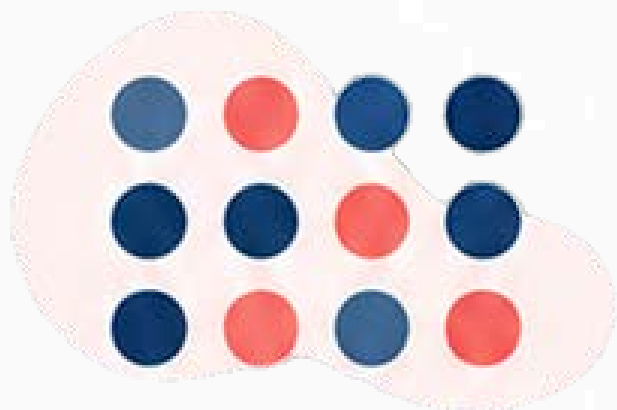
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2026 YEAR-END HOLIDAY WORKSHOPS

CREATIVE MATH

Stretch your thinking with
puzzles and playful problem-solving.

For curious minds ready to explore beyond routine school maths. Children investigate patterns, tackle brainteasers and try different ways to solve a problem. The challenge is to notice, reason and explain.



SEE PATTERNS

Build number sense
and discover
relationships.



THINK IN SHAPES

Explore visual puzzles,
spatial reasoning and
creative possibilities.



SOLVE WITH IMAGINATION

Test ideas, try another
approach and explain
your thinking.

Curiosity. Confidence. The courage to keep trying.



P1-P3 IN 2027



21-23 December 2026 | Monday-Wednesday
28-30 December 2026 | Monday-Wednesday



3pm-5pm | 2 hours per session



\$120 per session

Choose one or more sessions.
Every session is unique.

ENQUIRIES & REGISTRATION



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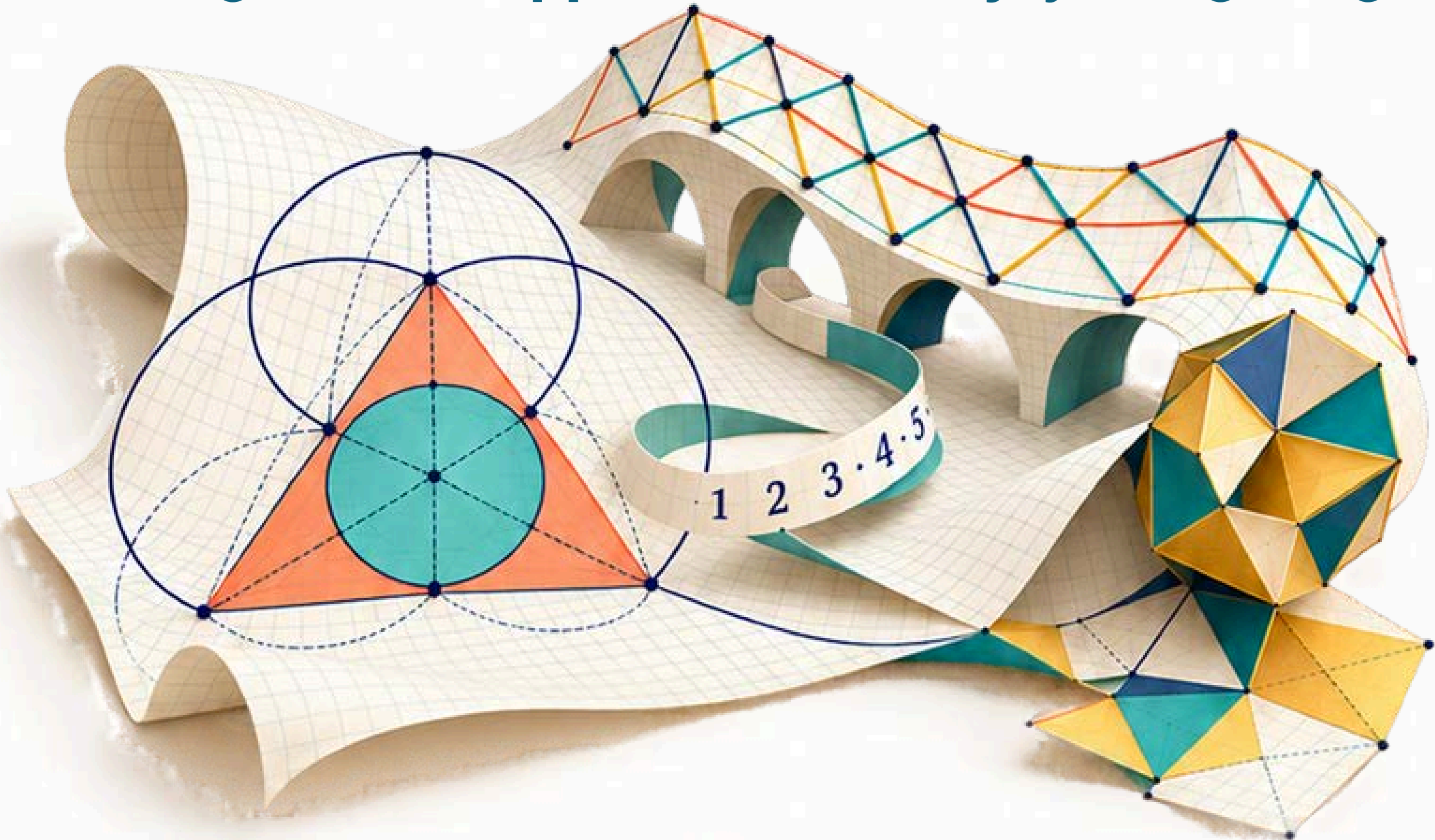


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2026 YEAR-END HOLIDAY WORKSHOPS

MATH OLYMPIAD

Fresh challenges. New approaches. The joy of figuring it out.



P3 & P4 MATH OLYMPIAD

For children who enjoy asking,
“Is there another way?”

Give a curious child something worth puzzling over. Explore logic and creative reasoning through unfamiliar problems that invite investigation.

WHY CHILDREN WILL WANT TO TRY IT

The thrill of an “aha!” moment:

Work through a puzzle and discover why the solution works.

Room for their own ideas:

Test different approaches and learn that a first attempt need not be the final one.

A satisfying stretch:

Explore challenges beyond routine school maths while building confidence to keep trying.

P3 students in 2027

Sat 19 AND/OR Sat 26 Dec 2026 | 9am–11am

P4 students in 2027

Sat 19 AND/OR Sat 26 Dec 2026 | 1.30pm–3.30pm

\$120 per two-hour session

P3 weekly classes begin January 2027,
Saturdays 9am–11am.

AMC 8 PAST-PAPER WALKTHROUGHS

Detailed solutions. Deeper understanding.

For P5–S2 students in 2027

Next AMC 8: 21–27 January 2027 (MAA window)

Work through past AMC 8 papers with detailed explanations of the underlying concepts. Pause for focused discussions when a question opens up useful ideas, alternative methods or common pitfalls.

The papers guide the learning, with concept discussions as questions arise.

CHOOSE ONE THREE-DAY RUN

16–18 December 2026 OR 21–23 December 2026
9am–12pm daily | 9 hours total

\$360 per three-day run

ENQUIRIES & REGISTRATION

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All school levels
refer to 2027.

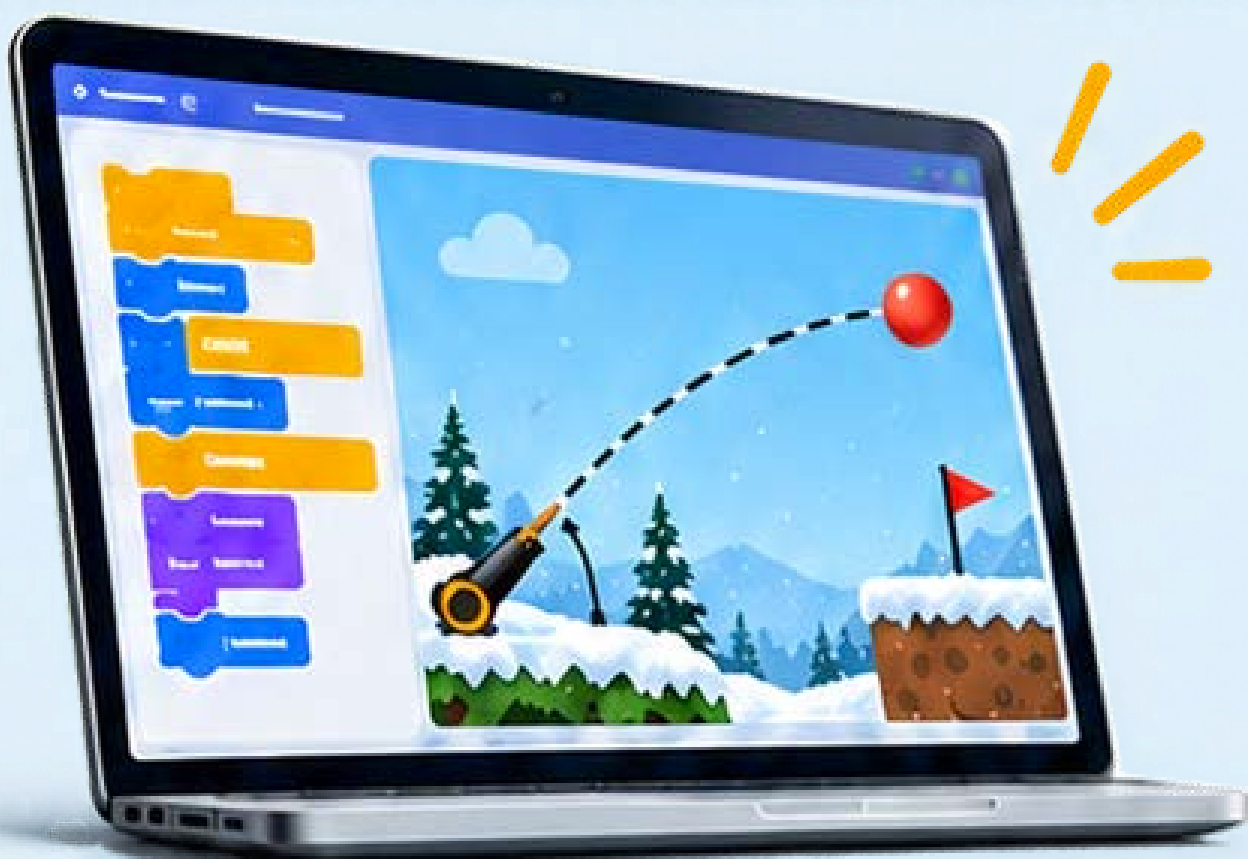


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2026 YEAR-END HOLIDAY WORKSHOPS

CODE. THINK. SOLVE.

Scratch • Chess • Rubik's Cube
Three ways to challenge a curious mind.



SCRATCH: CODE & EXPERIMENT

Build a launcher game, test different angles and investigate what sends your projectile furthest. Create, test and improve through maths, science and coding.



Recommended Levels: P3-P6



Thu 26 Nov OR Thu 3 Dec 2026



Bring a notebook computer.



CHESS: THINK AHEAD

FOR BEGINNERS • ALL AGES

Learn the rules and how the pieces move, read the board and plan your next move. Develop strategic thinking through guided play.



Fri 27 Nov OR Fri 4 Dec 2026



RUBIK'S CUBE: CRACK THE CHALLENGE

FOR BEGINNERS • ALL AGES

Learn a step-by-step method to solve the cube and practise the moves that bring it together.



Sat 28 Nov OR Sat 5 Dec 2026



Choose one date, Rubik's Cube included.



All sessions:
9am-11am



\$120
per two-hour session



ENQUIRIES & REGISTRATION

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2026 YEAR-END HOLIDAY WORKSHOPS

A CONFIDENT START TO NEXT YEAR'S MATH.

School Math Bridging

Build stronger foundations for the school year ahead.



All school levels refer to 2027.



P4 & P5 BRIDGING

3 days × 2 hours = 6 hours

Special holiday price:
\$300 per student, per run

P4

28–30 December
5pm–7pm daily

P5

21–23 December
5pm–7pm daily



PSLE & SECONDARY BRIDGING

3 days × 3 hours = 9 hours

Special holiday price:
\$450 per student, per run

PSLE (P6)

23–25 November | 12 noon–3pm
OR 7–9 December | 12 noon–3pm
OR 28–30 December | 12 noon–3pm

S1

30 November–2 December | 12 noon–3pm
OR 14–16 December | 1pm–4pm
OR 28–30 December | 9am–12 noon

S2

9–11 November | 9am–12 noon
OR 16–18 November | 9am–12 noon
OR 21–23 December | 9am–12 noon

S3

9–11 November | 12 noon–3pm
OR 16–18 November | 12 noon–3pm
OR 21–23 December | 12 noon–3pm

Choose one three-day run



ENQUIRIES & REGISTRATION

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Make room for curiosity this holiday.

VISIT US

Avocado Lab

1 Fifth Avenue, Guthrie House
#02-01 & #03-07
Singapore 268802

Immediately to your left
when you exit the lift.

5 mins from Sixth Avenue MRT Station.
Basement parking available.

Building has Cold Storage
and Coffee Bean.

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avocadolab.sg

All classes are onsite only.
Classes are subject to minimum enrolment.
All school levels refer to the student's level in 2027.