



META ROBOTICS



THE AMAZING ROBOTICS RACE CAMP EXCELLENCE

BUILD • CODE • CREATE

**SCHOOL HOLIDAY
ROBOTICS AND CODING
WORKSHOP**

3 HOURS PER DAY x 3 DAYS

JUNE 2026

FOR AGES 5-12

Junior | Exploratory | Mastery Robotics



Limited Slots - Register Now!

 **+65 8822 1615**

JUNIOR ROBOTICS (AGE 5 - 6)

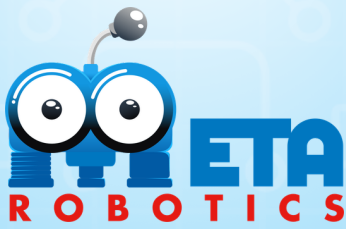
	DAY 1: SPEED & POWER	DAY 2: CONTROL & STABILITY	DAY 3: AMAZING RACE
SUMMARY	<ul style="list-style-type: none"> Students build simple race robots and explore fast vs powerful designs. 	<ul style="list-style-type: none"> Students build robots and explore balance and controlled movement. 	<ul style="list-style-type: none"> Students navigate their robots to checkpoints, complete challenges, and solve the final puzzle.
KEY CONCEPTS	<ul style="list-style-type: none"> Speed Power Motion Friction 	<ul style="list-style-type: none"> Stability Balance Structure 	<ul style="list-style-type: none"> Strategy Navigation
CODING FOCUS	<ul style="list-style-type: none"> Motor control Speed control Sensor detection 	<ul style="list-style-type: none"> Controlled motion Timed movement 	<ul style="list-style-type: none"> Sequencing Performance tuning
TARGET SKILLS	<ul style="list-style-type: none"> Fine motor control Visual-spatial thinking Observation Testing Comparison 	<ul style="list-style-type: none"> Precision Adjustment Problem-solving 	<ul style="list-style-type: none"> Teamwork Planning Persistence
HIGHLIGHTS	<ul style="list-style-type: none"> Guided builds with clear outcomes Immediate visual feedback 	<ul style="list-style-type: none"> Hands-on experimentation Encourages adjustment and retrying 	<ul style="list-style-type: none"> Exciting full race finale Strong sense of achievement

EXPLORATORY ROBOTICS (AGE 7 - 9)

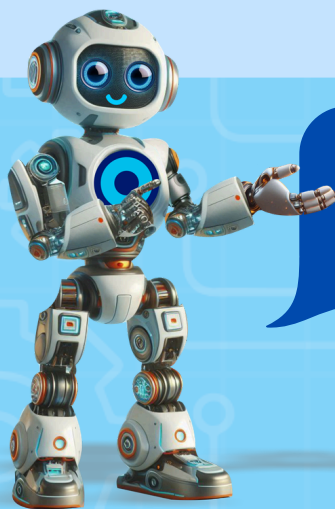
	DAY 1: SPEED & POWER	DAY 2: CONTROL & STABILITY	DAY 3: AMAZING RACE
SUMMARY	<ul style="list-style-type: none"> Students build and modify race robots using different transmission systems to compare speed and strength. 	<ul style="list-style-type: none"> Students build and enhance robots to explore balance and movement control. 	<ul style="list-style-type: none"> Students complete the full race by navigating to pit stops, tackling challenges, and refining robot performance.
KEY CONCEPTS	<ul style="list-style-type: none"> Transmission systems Speed vs torque Friction & efficiency 	<ul style="list-style-type: none"> Structural stability Balance & weight distribution Controlled movement Accuracy & consistency 	<ul style="list-style-type: none"> Navigation strategies Performance refinement Reliability testing Multi-stage task completion
CODING FOCUS	<ul style="list-style-type: none"> Motor control Timing Multi-step sequencing Sensor detection 	<ul style="list-style-type: none"> Speed adjustment Precision timing 	<ul style="list-style-type: none"> Multi-event sequencing Timing refinement Dual motor control Performance tuning
TARGET SKILLS	<ul style="list-style-type: none"> Design modification Comparison testing Logical thinking Trial & error 	<ul style="list-style-type: none"> Precision control Iterative testing Problem-solving Build refinement 	<ul style="list-style-type: none"> Strategic planning Team collaboration Debugging and refinement
HIGHLIGHTS	<ul style="list-style-type: none"> Encourages experimentation and modification 	<ul style="list-style-type: none"> Students refine builds for performance consistency 	<ul style="list-style-type: none"> Challenge-based problem-solving Strong teamwork and reflection

MASTERY ROBOTICS (AGE 10 - 12)

	DAY 1: SPEED & POWER	DAY 2: CONTROL & STABILITY	DAY 3: AMAZING RACE
SUMMARY	<ul style="list-style-type: none"> Students build and enhance race robots to optimize performance. 	<ul style="list-style-type: none"> Students refine robots for precise movement, accurate task completion, and performance consistency. 	<ul style="list-style-type: none"> Students complete the race using enhanced models and strategies.
KEY CONCEPTS	<ul style="list-style-type: none"> Gear ratio & torque Speed & power transmission Friction & efficiency Mechanical advantage 	<ul style="list-style-type: none"> Structural integrity Stability Controlled motion Balance and alignment Accuracy & repeatability 	<ul style="list-style-type: none"> Performance testing Race strategy Reliability enhancement Navigation efficiency
CODING FOCUS	<ul style="list-style-type: none"> Motor control Sensor detection Conditional logic 	<ul style="list-style-type: none"> Timed navigation Multi-step logic Movement precision 	<ul style="list-style-type: none"> Multi-event sequencing Timing optimization Event-driven programming
TARGET SKILLS	<ul style="list-style-type: none"> Engineering planning Design refinement Performance comparison Analytical thinking 	<ul style="list-style-type: none"> Advanced problem-solving Precision tuning Iterative improvement Reliability testing 	<ul style="list-style-type: none"> Race strategy planning Debugging Independent thinking
HIGHLIGHTS	<ul style="list-style-type: none"> Students modify design to improve performance 	<ul style="list-style-type: none"> Emphasis on reliability and refinement 	<ul style="list-style-type: none"> Emphasis on system design, performance and presentation



PLACE	DATE
Punggol Enrichment Centre	1-3 JUNE 2026 15-17 JUNE 2026
Jurong East Enrichment Centre	1-3 JUNE 2026 8-10 JUNE 2026
Novena Enrichment Centre	8-10 JUNE 2026 17-19 JUNE 2026
Bukit Timah Enrichment Centre	1-3 JUNE 2026 22-24 JUNE 2026
Katong Enrichment Centre	15-17 JUNE 2026 22-24 JUNE 2026
Thomson Enrichment Centre	8-10 JUNE 2026 22-24 JUNE 2026



1-Day	2-Days	3-Days
\$168	\$328	\$439

***GST Included**

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