

Welcome to National Robotics Competition 2023

Organiser:



















NRC Regular Category

Lower Primary: 7-9 years old | Upper Primary: 10-12 years old Secondary: 13-16 years old | Tertiary: 16-19 years old

NRC Open Category

Primary: 8-12 years old | Secondary: 13-16 years old | Tertiary: 16-19 years old

NRC AI Maker Series

Primary: 8-12 years old | Secondary: 13-16 years old

NRC Preschool (KUBO Challenge)

5-6 years old

NRC Preschool (ARTec Challenge) *NEW*

5-6 years old

NRC CoderZ Coding Challenge (Online)

Primary: 8-12 years old | Secondary: 13-16 years old

NRC RoboCup Singapore CoSpace Coding Challenge *NEW*

Primary: 8-12 years old | Secondary: 13-16 years old | Tertiary: 16-19 years old

Organiser:













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niser:



Held live on-site at Science Centre Singapore from 21 August to 9 September 2023



























NRC Preschool Category (ARTec Challenge) 2023

5-6 years old



















Agenda for the Webinar



- Introduction to Gameplay
- Scoring
- Award
- Important Dates



















Introduction to the NRC Preschool (ARTec Challenge) 2023



- Discovering and learning of Singapore's National agenda on sustainable development
- Engage in purposeful play, spark their interest and curiosity in STEM learning





















Introduction to Gameplay



















NRC ARTec (Pre-School) 2023



Presentation (30%)

- Online Presentation
- To showcase the design and coding of the ARTec Robots
- To share their learning

Robot Runs (70%)

Robot Runs based on scores from solving missions







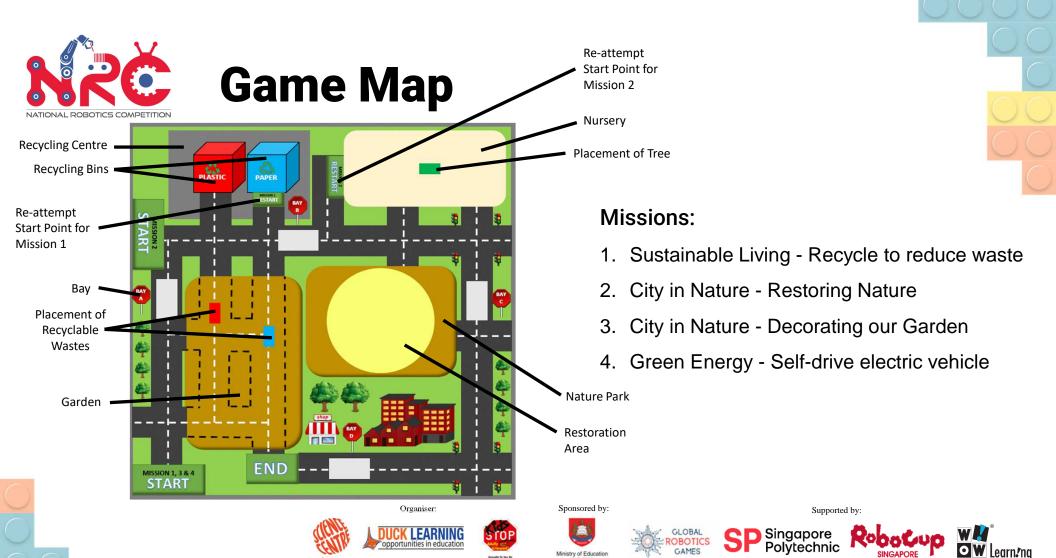














Allowed Material

Hardware	ARTec Coding+ Set (Batteries not provided)		
Software	ARTec Icon Programming		
Building Materials	For the building of Robots, ONLY ARTec branded elements are allowed		
Laptop (Not Provided)	The system requirements for Window: OS: Vista/ 7/ 8/ 8.1/ 10 (32 bit/ 64 bit) CPU: Pentium 4, 2 GHz or higher (or equivalent) recommended Memory: 256 MB or higher USB: USD 2.0 port	The system requirements for Mac: OS: Mac OS X 10.6 to 10.13 Hardware: Minimum required by OS (Please check the Apple website to confirm) USB: USD 2.0 port	













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Scoring













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Judging for Presentations



- 5 min of Presentation
- 3 min of Q&A
- Max 10 PowerPoint Slides
- May include Photos or Video in Slides
- Refer to Section 7.1 for scoring rubrics



















Scoring for Robot Runs

Mission	Preparation (Min)	Robot Attempt (Min)	Total Duration (Min)
Sustainable Living - Recycle to reduce waste	3	12	15
City in Nature - Restoring Nature	3	12	15
City in Nature - Decorating our Garden	3	7	10
Green Energy - Self Drive Electric Vehicle	10	10	20

• Refer to Section 7.2 for scoring rubrics





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Awards













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Awards & Prizes

- Overall Championship
 - 1st Place: \$400, trophy, banner, medals (per participant)
- Best Robot Performance
 - 1st Place: Trophy, medals (per participant)
 - 2nd Place: Medals (per participant)
 - 3rd Place: Medals (per participant)
- Best Presentation
 - Top 3: Medals (per participant)

* The Organiser reserves the right to amend the prizes without prior notice.

















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Awards & Prizes

- Best ARTec Robot Design
 - Top team: Medals (per participant)
- Best Teamwork
 - Top team: Medals (per participant)
- All Participants
 - Certificate of participation

* The Organisers reserves the right to amend the prizes without prior notice.























Important Dates

	Dates	Time	Remarks	
ARTec Training	TBA	TBA	Training will be conducted onsite at Newton Room, SCS	
Kit Collection	TBA	10am – 5pm	Collection at Wow Education	
Online Presentation	23 rd August 2023	10am – 5pm	Date and time slot will be released closer to date	
Onsite Competition	30 th August 2023	9am – 5pm		













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Contact us/Updates/FAQ



















FAQ - ARTec Category

Where can we download or purchase the ARTec playfield mat?

Ans: You may purchase the playmat from Wow Education. The printable playmat will be uploaded onto the NRC webpage.

2. Can the participants bring robots pre-assembled? Will there be dismantling of robots?

Ans: We do not require robots to be assembled on the spot during competition. You may bring pre-assembled robots

3. Apart from showcasing their physical robot for robot game, is the team expected to present on their robot game strategy, robot design, build and coding process?

Ans: Yes. The processes are important for judges to gauge participants' learning journey. It also helps to demonstrate originality of work i.e. not just a solution given by mentor.





Organiser:















FAQ - ARTec Category



4. How will the presentations be conducted?

Ans: Presentations will be conducted online. More details can be found in the challenge booklet.







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FAQ - Registration

1. Can I register for more than one category?

Is there a maximum no. of teams each school can register for?

Ans: Yes, if the dates are not overlapped. There is no maximum no. of teams a school can register.

2. If we are registering as a private team, what do we put under school name? Ans: You can indicate as "independent" or "private".

3. Can we pay the registration fee by e-invoice? Is there any other method of payment?

Ans: We only accept credit card payment through our registration platform.

4. Can a coach/mentor be repeated for multiple teams?

Ans: Yes.

5. When is the latest cut off for registration?

Ans: Registration opens from 24 Feb to 1st July 2023







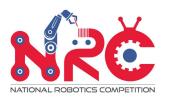












FAQ -Others



Ans: There is no need of bystander tickets to view the competition, walk-in is allowed. There will be a designated zone for the audience to sit and view the competition.

2. Is there any preparation class from Science Centre?

Ans: A training session will be provided by Wow Education. Please contact enquiries@wow.com.sg for more details.













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Contact us/ Updates/ FAQ



Website

Social Media Sign-up Link

Email







enquiries@wow.com.sg

For any queries, please type in the Zoom Chat





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