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Nine Caribbean countries win medals at the 2024 Caribbean STEM Olympiads

The Caribbean Science Foundation (CSF) held the second annual Caribbean STEM Olympiads (CSO) on 17 – 21 January 2024 in a virtual format. In these Science, Technology, Engineering and Math (STEM) Olympiads, individuals and teams representing educational institutions, clubs or themselves competed in the (a) Math Olympiad, (b) Computer Coding Olympiad and (c) Robotics Olympiad at three different age levels (12 – 15, 16 – 18 and 19 – 21).

The Math Olympiad was held in a Jeopardy-style format and covered topics ranging from consumer arithmetic to vector calculus. The Computer Coding Olympiad tasked applicants to create apps, games, and websites aimed at solving a challenge faced by Caribbean communities. The challenges tackled by teams in the 2024 Olympiads included geohazards and climate change, inter and intra country transportation, public health, non-communicable diseases, crime, money movement, and financial education. The Robotics Olympiad tasked applicants with building innovative robots from kits at Level I, and complex robots at Level III starting from scratch with a set of random parts.

A total of 131 students from 11 Caribbean countries registered for the 2024 Olympiads. After the preliminary rounds, 39 teams (83 students) made it to the finals. There were 47 finalists in the Math Olympiad, 22 in the Computer Coding Olympiad, and 14 in the Robotics Olympiad. Medal certificates and cash prizes of US\$ 500, 400, 300 and 200 were awarded to the teams winning platinum, gold, silver, and bronze medals, respectively. The Awards and Closing Ceremony, held on Sunday 21 January 2024, revealed that Jamaica led the medal count with 8 medals, followed by Antigua and Barbuda with 6, Belize with 4, Barbados with 3, Saint Lucia with 2, and Grenada, Guyana, Saint Kitts & Nevis and Trinidad & Tobago with 1 each.

A team consisting of Chad Wright, Micah Edwards and Sidan-E Walker who attend Champion College in Jamaica, but represented themselves, won the Level 1 Math Olympiad platinum medal, and Michaela Brown, Jamía Williamson, Kelsey Atkininstall and Kathryn McLean, also from Champion College but representing themselves, together won a platinum medal in the Level 2 Computer Coding Olympiad for their public-health focused project, "*HospitalFlow*." From Belize, Giselie Garcia who attends Muffles College High School, but represented herself, won the platinum medal in the Level 1 Computer Coding Olympiad with her hurricane preparedness project titled "*Protective Measures*". Avinda Dhoray, Saiesh Rampersad and Kovid Capildeo from Presentation College Chaguanas in Trinidad and Tobago, together won a platinum medal for stellar performance in the Level 2 Math Olympiad, while a team consisting of Kahlil Phillip, Rochelle Griffith and Tristan Pivotte, former students of T.A Marryshow Community College, Grenada, who are currently on a gap year, earned a platinum medal in the Level 3 Math Olympiad.

Regarding some of the other prestigious medals earned, "Team Psi-Kicks" consisting of Simeon Green, Ian Francis, and Tyreke Jones who are currently attending UWI, Cave Hill in Barbados won the gold medal at Level III of the Math Olympiad. Adrian Judnarine who represented The Patrick Lake Learning Institution in Antigua & Barbuda, won a gold medal in the Level III Computer Coding Olympiad for his mental health AI companion called "Mindful Mate". Ajanté Fraser from Antigua and Barbuda won the gold medal for his Level 2 Computer Coding project "Disaster Ready Caribbean".

The Kolij Robotics Club team of Jovani Gittens, Nathan Nicholls, Tykairi Sargeant, and Maliqua Cherubin of Harrison College copped the silver medal in Level II of the Robotics Olympiad with their "Plant Care Robot". Additionally, a silver medal for St. Kitts and Nevis was earned in Level I of the Computer Coding Olympiad by a 12-year-old student at Charlestown Secondary School, Abhijith Srinivasan, who presented his video game titled "Danger Dash" which focused on raising awareness about geohazards in the Region. Tejasvarun Kandavel of Queen's College, Guyana won the bronze medal in Level I of the Computer Coding Olympiad for his video game "Adventuring Climate Change" which focused on climate change awareness. "Random Walk" a team consisting of Aian Deane-Warner and Nalani Chassang who attend Queen's College in Barbados earned the

bronze medal in Level II of the Math Olympiad. More medal winners are described in the photographs below, and a list of all medalists by country and age range is given in the table on the last page.

Professor Cardinal Warde, the Interim Executive Director of the CSF reported that *“the STEM outlook for the Region is very positive. This year we raised the bar a little higher than it was in the inaugural year (2023) for the Math Olympiad, and I was again impressed by the performance of the medalists. To further raise the bar for our robotics and coding efforts, starting in April of 2024 the CSF will offer coaching sessions for interested robotics and coding teams to help them prepare for our 2025 Robotics and Computer Coding Olympiads.”* The competing students also had a lot to say:

Platinum medalist, “Team PCC Pi-rates” from Trinidad and Tobago stated, *“we would like to thank the CSF for hosting this competition as it helped to develop our analytical and critical thinking skills and we were able to apply everything we learnt in order to achieve success. We look forward to next year’s competition.”*

Another Platinum medalist team “Pythagorean Triples” from Grenada said, *“Thank you to the Caribbean Science Foundation for hosting this event. It was truly a pleasure to participate, we learned a lot.”*

Gold medalist Simeon Green of Team “Psi-Kicks” from Barbados stated, *“It was an unbelievable experience for me which I believe every young Caribbean student should experience. Preparations for the Math Olympiad exposed me to new concepts that I would need for university degree and for my future endeavours beyond academia. I have grown immensely, not only in my understanding of certain mathematical concepts but in how I can apply them in real-world situations.”*

Silver medalist Abhijith Srinivasan, 12 years old, from Saint Kitts and Nevis stated, *“I would like to thank everybody for this opportunity to compete in the Coding Olympiad. I am forever grateful. I was inspired when I visited the SPISE scholars, and I am ready to compete again next year.”*

Team Ravens of Jamaica, who won a silver medal in Level 2 Robotics said, *“Thank you on behalf of Team Ravens; this experience was truly amazing, and we have learnt a lot from this opportunity to participate!”*

Tejasvarun Kandavel, a 13-year-old student from Guyana who won a bronze medal in the Level I Computer Coding Olympiad said, *“I would like to thank the CSF for giving me the opportunity to participate in the Coding Olympiad Finals. I would also like to thank the judges for reviewing my project and giving me feedback on how to improve it.”*

The Institutional sponsors included CIBC Caribbean, Emera Caribbean, Peloton International, Trident Insurance, and TAG software.

The CSF is a regional non-profit NGO with the mission of assisting with the development and diversification of the economies of the Caribbean Region by promoting STEM education reform and stimulating technology-based entrepreneurship. For more information on the CSF, the Caribbean STEM Olympiads and other programs run by the CSF, please visit <https://caribbeanscience.org>.

Selected Photos from the 2024 CSF Olympiads



Adrian Judnarine who represented The Patrick Lake Learning Institution in Antigua & Barbuda, won one gold medal in the Level 3 Computer Coding Olympiad for his mental health AI companion called “Mindful Mate”, a bronze medal in the Level 2 Coding Olympiad for his travel and vacationing app “Get There”, and a second bronze medal in Level 2 Robotics Olympiad for progress on his “Solar Tracker” photovoltaic energy generation project.



Ajanté Fraser from Antigua and Barbuda won the gold medal for his Level 2 Computer Coding project “Disaster Ready Caribbean”. Ajanté also won a silver medal with his teammates Emmanuel Chiddick and D'Chaiya Emmanuel for their Level 3 Computer Coding project “PennyWise”, a website that focused on driving economic empowerment and financial knowledge.



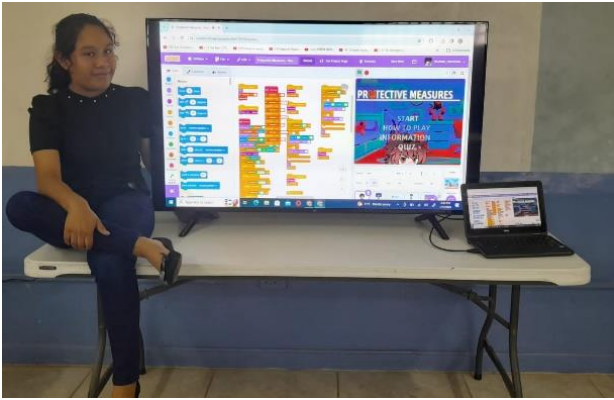
Kolij Robotics Club team members, Tykairi Sargeant, Maliqua Cherubin, Jovani Gittens and Nathan Nicholls of Harrison College, Barbados, earned a silver medal in the Level 2 Robotics Olympiad for their Plant Care Robot.



Team “Psi-Kicks” consisting of Simeon Green, Ian Francis and Tyreke Jones of UWI – Barbados earned the gold medal in the Math Level 3 Olympiad.



Team “Random Walk” consisting of Aian Deane-Warner and Nalani Chassang Green, Barbados earned the bronze medal in the Math Level 2 Olympiad.



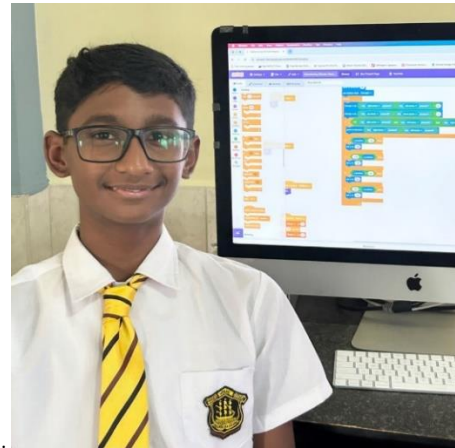
Giselie Garcia from Muffles College High School, Belize, formed a single-person team named “Bobcat” and clinched the platinum medal in the Level 1 Computer Coding Olympiad for her project “Protective Measures”, a hurricane preparedness video game.



Osmar Lopez, Ryan Coc, Jaevanie De Paz and Mannat Lalwani from Muffles College, Belize, formed team Tectactic and won the gold medal in the Level 1 Computer Coding Olympiad for their video game, “Quest of Survival”, aimed at educating players about natural disasters in the Region.



Kahlil Phillip, Rochelle Griffith and Tristan Pivotte from Grenada won the platinum medal for their performance in the Level 3 Math Olympiad



Tejasvarun Kandavel of Queen’s College, Guyana won the bronze medal in the Level 1 Computer Coding Olympiad for his video game focused on climate change awareness titled “Adventuring Climate Change”.



Chad Wright, Micah Edwards and Sidan-E Walker of “Team CMS” from Jamaica captured the platinum medal for the Level 1 Math Olympiad.



Team KSM consisting of Kayla Wright, Shandon McFarlane and Malique Flowers from Jamaica won the gold medal for Level 2 of the Math Olympiad.



“Island Hacks”, an all-girls, platinum-winning team in the Level 2 Computer Coding Olympiad, consisting of Michaela Brown, Jamia Williamson, Kelsey Atkininstall and Kathryn McLean of Campion College, Jamaica. Their project “HospitalFlow” focused on expediting and digitizing the registration process at hospitals.



“Team Ravens” consisting of Vance Tyndale, Dejaunay Hynton, Malique Powell and Ramiro Guyah of St. Jago High School, Jamaica earned a silver medal in the Robotics Level 2 Olympiad.



Anaiah Bousquet and Shanice Searles of “The Mathmagicians” of Saint-Lucia earned the gold medal in the Level 1 Math Olympiad.



Faith Robinson from Vieux-Fort Comprehensive, Saint Lucia, earned a bronze medal in the Level 3 Robotics Olympiad for her project “DRD v1” that attempted to build a robotic dragon fly.



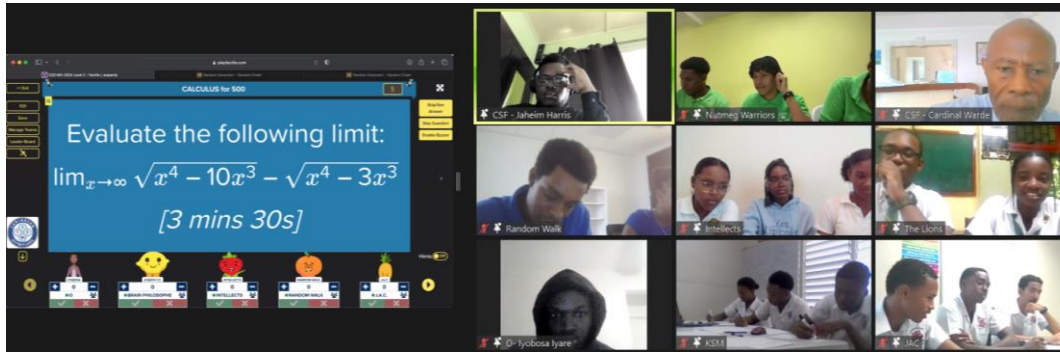
Abhijith Srinivasan of Charlestown Secondary, Saint Kitts & Nevis, earned a silver medal in Level 1 of the Computer Coding Olympiad for his project “Danger Dash” a video game that focused on raising awareness about geohazards in the Region.



“PCC Pi-rates”, from Presentation College Chaguanas, Trinidad and Tobago, consisting of team members Avinda Dhoray, Saiesh Rampersad and Kovid Capildeo clinched the platinum medal in the Level 2 Math Olympiad.



Teams in Math Level 1 Olympiad Finals.



Teams in Math Level 2 Olympiad Finals.

2024 CARIBBEAN STEM OLYMPIADS: MEDALISTS BY COUNTRY, EVENT AND AGE LEVEL

Math Olympiad Level 1

Country	Team Name	Team Members	Representing	Medal
Jamaica	Team CMS	Chad Wright, Micah Edwards, Sidan-E Walker	Self (Campion College)	Platinum
St. Lucia	Mathmagicians	Anaiah Bousquet, Shanice Searles	Self (St. Joseph's Convent)	Gold
Belize	Muffles College	Miguel Pech, Rue Hung, Mannat Lalwani	Muffles College High School	Silver
Jamaica	--	Ayeisha Mcherson	Self (Immaculate Conception High)	Bronze

Math Olympiad Level 2

Trinidad & Tobago	PCC Pi-rates	Avinda Dhoray, Kovid Capildeo, Saiesh Rampersad	Presentation College Chaguanas	Platinum
Jamaica	KSM	Kayla Wright, Shandon McFarlane, Malique Flowers	Self (Campion College)	Gold
Jamaica	J.A.C.	Jayden Clarke, Alano Wheatley, Cody Williamson	Self (Campion College)	Gold
Barbados	Random Walk	Aian Deane-Warner, Nalani Chassang	Self (Queen's College Secondary)	Bronze

Math Olympiad Level 3

Grenada	Pythagorean Triples	Kahlil Phillip, Rochelle Griffith, Tristan Pivotte	Self (Gap Year, previously attended T.A Marryshow Community College)	Platinum
Barbados	Psi-Kicks	Simeon Green, Ian Francis, Tyreke Jones	Self (UWI - Cave Hill)	Gold
Jamaica	--	Mishkah Melbourne, Max Leiba	Glenmuir High School	Silver
Jamaica	Mathician	Alrique Beckford	Self (University of Technology)	Silver

Computer Coding Olympiad Level 1

Country	Team Name	Team Members	Representing	Project Title	Medal
Belize	Bobcat	Giselie Garcia	Self (Muffles College High School)	Protective Measures	Platinum
Belize	Techtactic	Osmar Lopez, Ryan Coc, Jaevanie, De Paz, Mannat Lalwani	Muffles College High School	Quest of Survival	Gold
Saint Kitts & Nevis	CoolXing	Abhijith Srinivasan	Self (Charlestown Secondary)	Danger Dash	Silver
Guyana	--	Tejasvarun Kandavel	Queen's College	Adventuring Climate Change	Bronze

Computer Coding Olympiad Level 2

Jamaica	Island Hacks	Michaela Brown, Jamia Williamson, Kelsey Atkininstall, Kathryn McLean	Self (Campion College)	HospitalFlow	Platinum
Antigua & Barbuda	FrostByte	Ajanté Fraser	Self (UWI 5 Islands)	Disaster Ready Caribbean	Gold
Belize	Team CATALYST	Lia Hunt, Aden Zabaneh, Maliyah Casey, Daniel Sharp	Belize High School	MyCRIME	Silver
Antigua & Barbuda	Bread Man	Adrian Judnarine	Patrick Lake Learning Institution	Get There	Bronze

Computer Coding Olympiad Level 3

Antigua & Barbuda	Bread Man	Adrian Judnarine	Patrick Lake Learning Institution	Mindful Mate	Gold
Antigua & Barbuda	Weather Machine	Saiyan Jacobs	Antigua State College	Weather Monitor	Gold
Antigua & Barbuda	The Pennies	Ajanté Fraser, Emmanuel Chiddick, D'Chaiya Emmanuel	Self (UWI: 5 Islands; Antigua State Coll.; Gap year)	PennyWise	Silver

Robotics Olympiad Level 2

Country	Team Name	Team Members	Representing	Project Title	Medal
Barbados	Kolij Robotics Club	Jovani Gittens, Nathan Nicholls, Tykairi Sargeant, Maliqua Cherubin	Harrison College	Plant Care Robot	Silver
Jamaica	Team Ravens	Vance Tyndale, Dejaunay Hylton, Malique Powell, Ramiro Guyah	St. Jago High School	Iterations	Silver
Antigua & Barbuda	Bread Man	Adrian Judnarine	Patrick Lake Learning Institution	Solar Tracker	Bronze

Robotics Olympiad Level 3

Saint Lucia	Light Creations	Faith Robinson	Self (Vieux-Fort Comprehensive)	DRD v1	Bronze
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