Since 1978

RSIC



RAVI SCIENCE & INNOVATION COMPETITION

INVITE

13. 14. 15 NOVEMBER

CITYRSIC.COM

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INTRODUCTION

The City School Ravi Campus is delighted to invite your institution to participate in the Ravi Science and Innovation Competition (R.S.I.C.), scheduled for 13th, 14th, and 15th November 2026.

R.S.I.C. is envisioned as a comprehensive platform that celebrates not only the traditional sciences, but also the dynamic fields of applied sciences and social sciences, recognizing that intellectual excellence spans multiple disciplines.

It's more than just a science competition. It is an intellectual playground designed to ignite curiosity, foster critical thinking, and celebrate the innovative spirit of young minds.

Over three days, students will engage with diverse categories spanning natural sciences, applied sciences, and social sciences, each thoughtfully structured to challenge their analytical abilities, creativity, and problem-solving approaches.

Our Philosophy

Our unique approach emphasizes learning beyond the classroom walls. We believe in taking science out of textbooks and bringing it to life, where students can engage with real-world applications and tangible challenges.

Through hands-on experimentation with scientific phenomena, participants will witness direct cause-and-effect relationships and develop an understanding of concepts through active engagement. In engineering categories, students will implement practical solutions to real-world problems, building prototypes and testing their designs in live environments.

For social sciences and law, we provide ground-level exposure to societal challenges, allowing students to research, analyze, and propose solutions based on actual community issues.
This integrated approach creates a bridge between academic understanding and real-world impact

Our vision

We believe in creating an inclusive, intellectually stimulating environment where students from different schools can collaborate, exchange ideas, and push the boundaries of what they thought possible.

R.S.I.C. aims to inspire the next generation of thinkers, including scientists, social innovators, engineers, and problem-solvers, by blending rigorous academic challenges with genuine intellectual exploration and discovery.

By bringing together diverse perspectives and disciplines, we hope to demonstrate that innovation knows no boundaries.

What to expect:

- Multiple carefully curated categories across sciences, applied sciences, and social sciences,
- Engaging real-world problem scenarios and challenges,
- Assessment by experienced judges and subject-matter experts,
- Opportunities for interaction and exchange across institutions and disciplines,
- A vibrant, intellectually enriching experience for all participants,
- Recognition and celebration of exceptional talent and innovation.

As we embark on this exciting journey with R.S.I.C, we would be honored by your school's participation and look forward to witnessing the exceptional talent, passion, and ingenuity of your students. Together, let us make this a memorable celebration of curiosity, innovation, and the spirit of scientific inquiry.

Note from the Senior Mistress

It gives me great pleasure to welcome you all to the Ravi Science and Innovation Competition (RSIC), the first science and innovation event of its kind at The City School Ravi Campus.

What makes RSIC particularly special is that it has been brought to life by our own students. Seeing their idea grow into an event that brings together young minds from different schools is a matter of great pride for me. Their enthusiasm, commitment, and willingness to take on something new have been truly encouraging.

RSIC is not only about competition. It is about giving students the opportunity to think beyond the classroom, explore new ideas, work together, and learn from one another. I hope that every delegate who joins us takes away something meaningful from the experience, whether it is a new idea, a new perspective, or simply the confidence to think differently. I am delighted to welcome all our participating schools and delegates to Ravi Campus and look forward to seeing the energy, creativity, and enthusiasm that each of you brings to RSIC.

Wish you all the very best and hope you have a memorable experience with us.

Regards,
Maleiha Khan
Senior Mistress at Ravi A-levels.

Note from the Executive Council

An idea, a vision, and a whole lot of hard work later, RSIC is finally here! A year in the making, countless meetings, 2 AM work sessions, a few collective crash-outs, and more than a handful of strikes later, what once seemed like an idea has finally become a reality.
Somewhere along the way, though, the planning became its own little reality show.

From Sabika's irreverent daily quotes to Khadija's constant rants, from Ilma's crash-outs to Alizah and Zayna's tea-dropping sessions, and from Meerab's occasional disappearances to Laveazay making sure to call her out every chance she got, and Hussain surviving as the only guy in the E.C. the Executive Council has had its fair share of plot twists.

At this point, organising RSIC has been just as much about keeping up with the EC as it has been about organising the event itself. But between the chaos, the laughter, the last-minute changes, and the endless meetings, one thing has remained constant: our excitement to bring this vision to life.

What started as an idea has grown into a platform for young minds to experiment, collaborate, challenge ideas, and think beyond the ordinary. We are incredibly excited to welcome you to the Ravi Science and Innovation Competition (RSIC), the first event of its kind at The City School Ravi Campus.

Three days of science, innovation, curiosity, and a little healthy competition await, and we cannot wait to see what you all bring to the table. To all our delegates, thank you for being a part of this milestone.

We hope you bring your curiosity, your competitive spirit, and perhaps a little patience for the unexpected. After all, if the Executive Council has taught us anything, it is that things rarely go exactly as planned, but they do make for a good story. The Executive Council may have been a whole event in itself, but now it is your turn to take the centre stage.

Welcome to RSIC 2026. We survived the planning; now it's your turn to make it worth it!

With excitement (and a little relief),
The RSIC Executive Council.

CATEGORIES

We present the assortment of 11 categories, catering to all fields.

Project Nexus & Gaia's Exchange are compulsory.

1. PROJECT NEXUS (PURE SCIENCES)



Project Nexus Science rarely stays in its own lane, and neither do we. So, we came up with Project Nexus. Whether it's Biology, Chemistry, or Physics, we took them out of their ICUs and dropped them straight into a world of fun, unexpected puzzles. Here, familiar concepts collide, overlap, and usually lead you you weren't expecting.
Three sciences. One chaotic Nexus.

2. Gaia's Exchange (ENVIRONMENTAL BUSINESS)



Welcome to Gaia's Exchange. Think you can keep a business thriving while the planet is under pressure? Welcome to the chaos. You'll face surprise environmental crises, tricky business decisions, limited resources, and competitors ready to steal your spotlight.

Keep your profits up, your planet-friendly choices smarter, and your business alive. Just when you think you've got it all figured out... plot twist.

The market shifts, resources disappear, and suddenly your next move matters. Play it safe or take the leap? Your call.
Think smart. Take risks. Stay green. Make your move.

3. Astral Axiom (Physics)



Physics is not confined to equations on a page; it is the language through which the universe reveals itself. Astral Axiom takes physics beyond theory and into practical problem-solving, challenging delegates to observe, reason, experiment, and adapt under pressure. Through interconnected challenges, participants will be pushed to think beyond memorisation, connect principles, and tackle the unexpected. Astral Axiom is where theory becomes ingenuity.

4. Curie's Chamber (Chemistry)



Named after the couple who contributed much to science through the discovery of radiation, as well as radium and polonium, Curie's Chamber focuses on the breadth of Chemistry. This category demands both chemical knowledge as well as logical deduction. Participants will be subjected to three rounds testing speed, accuracy, and mastery over problem-solving while

working under pressure with precision. As William Ramsay, the chemist who discovered the noble gases, stated:
"Nothing can be more certain than this; that we are just beginning to learn something of the wonders of the world on which we live and move and have our being."
This category is framed to challenge the mind, not just to fill it with facts, but to make you actually think the way real chemists do; questioning, deducing, and defending what you believe, just like Ramsay did when he went looking for elements nobody even knew existed yet

5. ATHENA'S BENCH (LAW & SOCIOLOGY)



Welcome to Law & Socio; the event category where we take super-serious legal codes and hurl them directly into the chaotic dumpster fire of human behavior. If you showed up expecting to just memorize fancy Latin words, wear a sharp blazer, and yell "Objection!" like a TV lawyer, please lower your expectations immediately. You aren't just reciting what the law says; you're here to explain why a rule written by a guy in a powdered wig two centuries ago completely collapses the second real, weird human

beings try to follow it. It is a total collision between the legal side of your brain, which wants everything neat, orderly, and sensible, and the sociology side, which is in the corner whispering, screaming that all rules are made up, anyway. Your job is to stand in front of the judges, make sense out of that total mess, and look like a genius doing it. If you blank on a real theory, just invent one, deliver it with total unearned confidence, and go take home that trophy anyways. Good luck, folks!

6. Pterion's Sanctum (Psychology)



Welcome to Pterion's Sanctum, where every decision has a reason. Every reaction has a trigger. Every person you meet carries a world of thoughts, patterns, biases, and beliefs that you cannot see. But what happens when the mind becomes the mystery? In this category, the obvious answer may not be the right one.

A harmless decision could hide a cognitive bias. A group could change the way you think without you even noticing. A stranger's behavior might reveal more about the situation than the person themselves. And somewhere beneath it all, your own mind could be quietly influencing the way you interpret everything around you.

So trust your instincts. Then question them.
The mind is a maze. The question is: can you find your way through it?

7. Hypatia's Enclave (Computer Science):



Deep within the ruins of a collapsed intelligence lies Hypatia's Enclave — a domain where circuitry and cognition are inseparable. To pass through it, delegates must prove fluency not merely in code, but in the architecture of thought itself: theory, logic, computation, and the discipline of tracing a mind that has gone astray.

8. The Cartesian realm (mathematics)



Welcome to the Cartesian Realm. This category tests not only your mathematical agility but also your resource management, logic, and ability to perform under pressure., While math cannot always be made easy, it can certainly be made more fun. Forget standard textbook tests–here, math meets strategy, games, puzzles, and creativity. We all know math, but only a few of us truly connect with it deeply. This is your chance to prove that you do. If looking at equations and theorems leaves you awestruck, this experience is built for you. Step into the Cartesian Realm to test your logic, beat the clock, and see where your mind takes you.

9. Case 1: The Watson Street (Biology):



Think Biology is all just about cells, diagrams, and words that just make no sense?? Well, that's not the case with our Watson Street. Here, you will be able to investigate a murder trial yourself, where every clue matters and nothing is quite what it seems. From CCTV footage and crime-scene evidence to uncovering hidden secrets, you'll be able to think outside the box, connect the clues, and trust your instincts.
But just when you think you've figured it all out — boom. A new plot twist. The case keeps changing, the clues keep coming, and your next move could change everything.
Think sharp. Investigate deeper. Solve the case.

10. The Joker's Act (Film & Drama)



Where cinema transcends reality, The Joker's Act merges performance, intrigue, and abstract imagination into an immersive dramatic spectacle. Participants do not simply interpret stories; they step through

the screen, breathing vitality into iconic cinematic moments through raw acting, roleplay, and atmospheric flair. Fostering sharp communication, teamwork, and creative courage, this category transforms traditional storytelling into an extraordinary, unforgettable experience.

11. Theseus' Circuit (ROBOTICS):



Think you can build a machine that can actually think its way out of trouble? Welcome to Theseus' Circuit, a three-round robotics challenge that takes teams from building a robot from the ground up to testing its performance and competing in an autonomous Robo Soccer finale. Across three days, teams will build, tune, and compete, putting their engineering, programming, and problem-solving skills to the test. From electronics and mechanical design to sensors and autonomous control, every stage challenges teams to turn an idea into a machine that can perform when it matters.

Build it. Test it. Take it to the circuit.

REGISTRATION POLICY

There are some basic guidelines that all teams are expected to abide by to avoid any possible inconvenience:

- **Team composition**

Each team must consist of 5 delegates min. & 7 delegates max.

- **Compulsory categories:**

Gaia's Exchange (Environmental Business)
Project Nexus (Pure Sciences). After choosing, delegates can select 3-5 categories from the 9 optional categories.

Delegates are required to bring their own resources (according to their respective categories)

- **Study guides**

Released a week prior to the event. If any category requires any material that will be mentioned in the study guide.

- **Registration Confirmation**

Team registrations will only be confirmed upon receiving the necessary details and payment of the respective team. Payment must be made timely to ensure smooth registrations as well.

FEE STRUCTURE

Early Bird:

Delegate fee	2000 PKR
Delegation fee	3000 PKR

Regular:

Delegate fee	2500 PKR
Delegation fee	3500 PKR

Early Bird registrations will end on:

1st November

Bank Details: Upon completion of registration, the respective bank details will be sent to the Head Delegate's email address.

CODE OF CONDUCT

Violation of any of these regulations can result in disqualification of an entire delegation:

1. Prohibited Substances and Items
Participants shall not possess, use, or bring any prohibited substances or unauthorised items onto the premises.

2. Harassment and Misconduct
Any form of harassment, intimidation, discrimination, bullying, or inappropriate behavior towards participants, organisers, staff, or other individuals will not be tolerated.

3. Protection of School Property
Participants are expected to treat all school property, facilities, equipment, and resources with due care and respect. Any damage caused through negligence or misconduct will be subject to appropriate action.

4. Safety Responsibilities
All participants must comply with established safety procedures and instructions issued by the organising team and school administration.

5. Liability for Personal Belongings

Participants are responsible for the security and safekeeping of their personal belongings. The organisers and school administration shall not be held liable for lost, damaged, or misplaced personal items.

6. Behavioural Conduct

Participants must maintain respectful, responsible, and appropriate conduct throughout the event and comply with the instructions of the organising committee and management.

7. Restricted Items and Permission

Items such as medicines, perfumes, or any liquid or edibles are prohibited on campus.

8. Cooperation with management

Participants are required to cooperate fully with the organising committee, event management, school administration, and authorised personnel at all times.

9. Identification

Participants must carry and display valid identification or event credentials whenever required by the organising committee or management.

CONTACT DETAILS

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