KINGSWOOD RESEARCH UNIT LOG BOOK







Kingswood Research Unit Journey

Ingratus 22'

The inception of "Ingratus 22" marks a significant milestone in the educational landscape of Sri Lanka, standing as a pioneering achievement that echoes innovation, collaboration, and academic excellence. As the first-ever research symposium held within the confines of a school in the nation, this event has carved an indelible mark in the realm of education and research. The symposium takes its name from the amalgamation of "Ingratus," signifying gratitude and acknowledgment, and the number "22," which symbolizes the year of its inception. This unique nomenclature encapsulates the essence of the event, as it is a platform designed to express gratitude for the power of knowledge while ushering in a new era of intellectual exploration and enlightenment.

This monumental event was brought to life through the synergistic efforts of three distinguished hill country schools in Sri Lanka: Kingswood College Kandy, Mahamaya Girls College Kandy, and Girls High School Kandy. Their collaborative spirit has set an inspiring precedent for unity in fostering education and nurturing young minds.

The heart of "Ingratus 22" lay in its research competition, an arena where budding scholars and inquisitive minds from the three participating schools came together to showcase their innovative research endeavors. Before delving into the competition, the organizers orchestrated a series of awareness sessions that sought to enlighten the participants about the importance of research and its role in expanding the boundaries of knowledge. These sessions also served as a rallying point for igniting the flames of curiosity and instilling a sense of purpose among the young researchers.

Guided by experienced mentors and seasoned researchers, the participants were led through the intricate journey of conducting research. They were introduced to the nuances of formulating research questions, designing methodologies, collecting and analyzing data, and deriving meaningful conclusions. This guidance not only provided practical insights but also instilled a sense of confidence, transforming these young enthusiasts into adept researchers in their own right.

The culmination of this transformative journey was witnessed through the submission of more than 20 research projects from the three participating schools. The breadth and depth of these submissions were astounding, showcasing the diversity of interests and the intellectual fervor of the participants. The topics ranged from scientific inquiries to social studies, from technological advancements to ecological conservation - a true testament to the multidimensionality of the youthful intellect.

"Ingratus 22" undoubtedly stands as a monumental leap in the realm of school-based research. It not only facilitated a platform for the exchange of ideas but also nurtured a culture of critical thinking, analysis, and originality. Beyond its immediate impact, this symposium has sown the seeds for a future where education is not confined to traditional boundaries but is a dynamic force that propels students towards scholarly pursuits from an early age.

As the echoes of "Ingratus 22" reverberate through the halls of these three hill country schools, they serve as a reminder that the pursuit of knowledge knows no limits. The symposium has ignited a flame of intellectual curiosity that will undoubtedly continue to burn brightly, guiding these young researchers towards new horizons of discovery and innovation.



Awareness Program 1 - 14th July 2022

The first chapter of the "Awareness Program," organized by the Kingswood Research Unit committee, ushered in a new era of learning and collaboration. Geared towards enlightening young committee members, the event aimed to introduce them to the world of research and foster community growth.

Structured around three key themes—understanding research, conducting research, and grasping its significance—the program began by unraveling the essence of research itself. Dynamic presentations from committee members Sathmika Gunawardhane, Laknath Bandara, Dinsara Ariyawaanshe, and Anupama Mallikarathne illuminated various facets of research, from conceptualization to execution.

The spotlight then turned to the practicalities of research methodology, offering participants a roadmap to navigate the intricacies of research projects. The event's impact extended beyond its physical confines, as presentations were shared on YouTube for wider accessibility.

Ultimately, the chapter underscored research's transformative influence on innovation and societal progress. By instilling a deeper appreciation for research, the program inspired committee members to embark on meaningful scholarly pursuits, fostering a community united by intellectual curiosity and a shared commitment to advancing knowledge.

Awareness Program 2 - 18th August 2022

Chapter 2 of the Awareness Programme Series aims to equip young researchers with practical knowledge, taking them through the research process step by step. Building on the lessons from the first phase of the programme, this chapter empowers students to conduct their own research projects.

Due to the constraints posed by the COVID-19 pandemic and low in-person attendance, the programme was adapted to online lectures. This allowed students to access the knowledge they needed without compromising safety.

The main focus of this chapter is to teach students how to create project proposals, final reports, and presentations for their research. Dinsara Ariyawnasha covered the basics of project proposals, while Sathmika Gunawardhane provided insights into creating project proposals, final reports, and abstracts.

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Beyond research methodology, the programme also included informative sessions. Anupama Mallikrathne, Chethiya Bandara, and Hiruna Thisaru conducted sessions on Monkeypox disease and the Origin of Life, broadening the students' scientific horizons. Sathira Thennakoon's careful editing ensured the smooth delivery of the content.

In conclusion, Chapter 2 of the Awareness Programme Series not only imparts research skills but also fosters a sense of community among young researchers. By adapting to challenges and providing essential knowledge, this chapter paves the way for a future generation of capable and innovative researchers.



Chemical science workshop

Chemical Science Workshop, hosted by the Kingswood Research Unit, aimed at young researchers eager to expand their knowledge of chemical science. With support from the Kingswood College Chemistry Lab and guided by Mrs. C P Walianga, the workshop provided hands-on experience through various chemical experiments.

Four prominent experiments were conducted:

- The Ammonium Dichromate experiment.
- Elephant toothpaste experiment
- Displaying a model of a volcano
- Exploring the properties and colour changes of acids and bases and its interactions.

These experiments captivated participants and demonstrated real-world applications of chemical principles.

Anupama Mallikarathne, Yasasvi Wijekoon, Rumika Mapitigama, and Dineth Sankalana, all Kingswood gentlemen, skilfully managed the workshop. Their efforts ensured a smooth and engaging event, fostering participants' curiosity and understanding of chemical science.

The workshop left attendees with renewed enthusiasm for chemistry and the potential to pursue further exploration in this dynamic field. Through collaborative efforts, the Kingswood Research Community sparked a passion for scientific discovery among the next generation of researchers.

Experzio 22

01) Opening Ceremony

The Experzio 22 All Island Research Competition and Symposium, organized by the Kingswood research community, represents a significant milestone in Sri Lankan education. It is the largest research symposium ever hosted by a school in the country. The journey of Experzio 22 began on November 25, 2022, with an opening ceremony that marked the start of a four-month-long process. Over these four months, participants engaged in research and exploration across various fields, from sciences to humanities and technology to social sciences.

At the heart of the symposium was a dedication to the pursuit of knowledge. Researchers, scholars, and students worked diligently to investigate and analyze their chosen subjects. This culminated in the symposium itself, where participants came together to share their findings and insights. The event provided a platform for intellectual exchange, with presentations and discussions fostering a vibrant atmosphere of learning.

As the symposium concluded, a sense of achievement and unity prevailed. Experzio 22 had not only expanded academic horizons but also brought people from diverse backgrounds closer through shared intellectual endeavors. The event's impact on Sri Lanka's educational landscape is undeniable, underscoring the importance of collaboration, innovation, and the quest for knowledge.

Experzio 22's significance lies in its ability to demonstrate how academic excellence can transcend boundaries and contribute to the advancement of human understanding. The Kingswood research community's efforts have left a lasting impression, inspiring future generations to strive for greater heights in their pursuit of knowledge.



02) Research Competition

Step into the world of intellectual exploration with Experzio 22 Research Competition, where young minds converged to showcase their innovative research projects from schools across the board. With an impressive influx of over 150 research submissions, this event highlights the fervor for learning and innovation among students.

Commencing on November 17th, the competition kicked off its registration phase, offering two distinct categories for participants: one for researches already completed and another for those undertaken within the competition's timeline.

Participants were allotted a generous window of one and a half months to conduct their research projects, fostering a climate of curiosity and investigation. The research categories spanned across natural sciences, social sciences, applied sciences, and other innovative fields.

The evaluation process was meticulous, led by a panel of expert judges from the esteemed National Institute of Fundamental Sciences (NIFS). Their discerning eyes sieved through the submissions, identifying the most promising and transformative ideas. From this rigorous process, the top 10 researches were selected in each category. These exceptional projects not only garnered recognition for their creators but also underscored the value of youthful curiosity and innovative thinking.

Experzio 22 Research Competition stands as a source of inspiration for generations to come—a testament to the power of curiosity, innovation, and collective knowledge. Beyond an event, it symbolizes a journey that nurtures young intellects, fosters innovation, and harmonizes the diverse spectrum of ideas for progress.

03) Lakshman Dissanayake Challenge Trophy

Introducing "Experzio'22" Research Magazine– a remarkable testament to the intellectual vitality and innovative zeal of Sri Lanka's school-level research community. This pioneering abstract book stands as a milestone, capturing the essence of young scholars' explorations and discoveries.

Within "Experzio'22," you'll find over 100 research abstracts, each offering a glimpse into the boundless curiosity and determination of the next generation of thought leaders. As Sri Lanka's inaugural school-level abstract book, "Experzio'22" Research Magazine is more than an abstract book; it's a triumph of youthful ambition and a guidepost for aspiring researchers.

These abstracts span a diverse array of fields, showcasing the ingenuity of these budding scholars. Each abstract encapsulates both a research project's core and the aspirations of young minds eager to impact the world.

Named "Experzio'22" to honour experiential learning, this research magazine is a vibrant tapestry of ideas, theories, and inquiries. Its pages echo the voices of those who question, probe, and uncover. The layout mirrors the energy of discovery, guiding readers on a visual journey that complements the intellectual exploration within.

"Experzio'22" is a collaborative effort, celebrating the collective brilliance of the school research community. It bridges perspectives, cultures, and methodologies, connecting classrooms and laboratories. As readers explore these abstracts, they embark on an adventure, venturing into uncharted realms of knowledge and innovation. This abstract book serves as a stepping stone for



young researchers, providing a platform to showcase potential and kindle a lifelong passion for inquiry. Flipping through its pages, they become part of a legacy that values curiosity, nurtures brilliance, and paves the way for a future shaped by young minds.

04) Research Symposium

Experzio '22 is in essence a research competition organised by the research unit of Kingswood college with the sole intent of uplifting and nurturing a passion for research and a desire for new discovery within the school community both at Kingswood and out of school grounds. Being the first school based all island research symposium, Experzio'22 became the trademark of Sri Lankan school researching. Staying true to the values of the Kingswood research unit Experzio '22 was carefully crafted with the support and mentorship off the National Institute of fundamental Sciences. Which in turn made us able to provide an output of high-quality researches with international recognition.

The project was initiated on the 14th of July 2022 with a series of workshops related to research within the Kingswood circle. Registrations for Experzio '22 were opened on the 17th of November 2022. We saw a massive interest in the school community towards research with over 150 registrations from schools all over the island. The opening ceremony of the competition was held on the 25th of November 2022 where a further workshop an introductory session were held in the presence of external resource persons. The registered contestants carried out their research studies between the dates of the 28th of November 2022 and the 19th of January 2023. We saw a staggering output off nearly 100 successful research projects being carried out under Experzio '22. And Kingswood research unit to further motivate the researchers announced the winners of the research competiton will be rewarded with "Professor Lakshman Disssanayake Challenge Trophy" which is the first ever award designated for school researching. And which also provided much due respect to a scientist who has made Sri Lanka shine in the international stage countless times. This once again shows that Kingswood Research Unit are the pioneers of Sri Lankan school researching. As scheduled Experzio'22 was held on 29th of March 2023 with the participation of over 20 schools. The event was held with participation of our esteemed chief guest professor Harsha Subasinghe who is the President and Chief Executive Officer of CodeGen Group of Companies and is a leading inventor rallying Sri Lanka towards development. On the day of Experzio '22 an abstract book containing abstracts of all the successful research projects carried out under the project was presented to the audience adhering to the international standards of research symposiums. 13 of the finest researches of our competition were presented at the symposium according to the international standards. And after a close battle with Mahamaya Girls' College Kandy and Kandy Girls' High School, Kandy Girls' High School were crowned as the champions of Experzio'22. This marked the successful conclusion of the first ever all island research symposium conducted by a school in Sri Lanka.

05) Experzio 22 Research Magazine

The "Prof. Lakshman Dissanayake Challenge Trophy" stands as a resplendent symbol of excellence, knowledge, and aspiration. Crafted with meticulous attention to detail, this prestigious trophy serves as a tribute to the indomitable spirit of Professor Lakshman Dissanayake, a luminary in the realm of academia and innovation. A gleaming embodiment of dedication and achievement, the trophy was conceived to honor the remarkable contributions made by Professor Dissanayake to the fields of research, education, and intellectual pursuit. Its elegant contours and exquisite craftsmanship reflect



the intellectual depth and visionary thinking that Professor Dissanayake has consistently exemplified throughout his distinguished career.

As the centerpiece of the research symposium and competition conducted by the Kingswood Research Unit, this trophy symbolizes the pursuit of excellence that echoes through the halls of academia. It represents the aspirations of the young minds who engage in intellectual discourse and the exhilarating quest for knowledge. The "Prof. Lakshman Dissanayake Challenge Trophy" is not merely an object of admiration; it is a testament to the enduring legacy of a visionary educator. It encapsulates the very essence of curiosity, perseverance, and innovation that Professor Dissanayake has championed throughout his illustrious career. Awarded to the winners of the competition, it serves as a beacon, guiding them toward new horizons of scholarly achievement and intellectual exploration.

Random Facts

Dive into the world of "Random Facts," an event dedicated to enlightening both young community members and the research community itself. This unique occasion aims to shed light on the special facts that often go unnoticed in our daily lives. From intriguing scientific phenomena to lesser-known historical anecdotes, "Random Facts" is a captivating journey that transforms ordinary moments into remarkable learning experiences.

This event goes beyond the ordinary by presenting a diverse range of topics. Whether you're interested in the mysteries of nature or the quirks of human behavior, there's something for everyone. The seemingly random assortment of facts adds an element of surprise, reminding us that knowledge can be found in unexpected places.

"Random Facts" isn't just about sharing information – it's about fostering discussions and interactions. Attendees are encouraged to question and explore the facts presented, creating an atmosphere of intellectual exchange reminiscent of academic discourse.

Join us in celebrating the power of knowledge and discovery at "Random Facts." Whether you're a curious young learner or a seasoned researcher, this event invites you to appreciate the remarkable facets of our everyday world that often go unnoticed.

Across the Board

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Dive into a rich tapestry of global traditions with 'Across the Board.' This unique showcase brings to light the special events that adorn our calendar, shedding light on the reasons and customs that make each day remarkable worldwide.

Beyond just marking dates, 'Across the Board' is a cultural kaleidoscope. It's an open door to diverse histories and cherished rituals, inviting us to step into different shoes and experience the spectrum of human emotions that unite us all.

But it's not just about what's familiar. 'Across the Board' encourages us to explore the lesser-known, to uncover the beauty in traditions from around the globe. This isn't just a display; it's an educational journey that fosters empathy, understanding, and unity among our community.

As you navigate through 'Across the Board,' let curiosity be your guide. Join hands with a global community celebrating life's multifaceted beauty and shared experiences, one day at a time.

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Academic achievements

Ingratus 22

Accomplishments of Ingratus 22 took center stage and among the standout achievements, the coveted title in the natural science category was secured by an exceptional research endeavor titled 'Effects of Human Activities on Aquatic Ecosystems around Kandy.' Spearheaded by the collaborative efforts of Sathmika Gunawardhane, Laknath Bandara, Malith Jayasinghe, Seniru Wickramasooriya, and Tehan Nethmina, this study transcended the competition guidelines, offering a comprehensive insight into the intricate interplay between human actions and the aquatic biospheres.

Steering their way into the best social science research category, a team of remarkable minds, Anupama Mallikarathne, Thisal Thilakarthne, and Chamidu Dilshan from Kingswood Gentlemen, emerged victorious. Their research cast a penetrating light on the complexities of societal dynamics, standing as a testament to collaborative brilliance and relentless dedication.

Ingratus 22's accomplishments not only underscore the power of persistent pursuit of knowledge but also symbolize the potential of collective efforts in advancing human understanding. These achievements resonate as a source of inspiration for budding scholars, attesting that the path of curiosity, determination, and teamwork is instrumental in unraveling the mysteries of the world and sculpting a brighter future.

Explicatio 22

The Explicatio 22 Annual Research Competition and Symposium held at Girls High School Kandy was a significant event that showcased the dedication of young researchers and their pursuit of knowledge. The competition served as a platform for participants to delve into various research areas, fostering a spirit of curiosity and exploration.

Within this dynamic setting, a committee of enthusiastic students from the school embarked on a compelling research endeavor. Their study focused on a subject of growing interest and importance—the potential effects of pet therapy on both human blood pressure levels and mental well-being. This research question held particular relevance in a world grappling with stress and mental health concerns.

Pooling their skills and insights, the committee members embarked on a rigorous journey of data collection, analysis, and interpretation. Through surveys, observations, and possibly even collaboration with healthcare professionals, they compiled valuable information that would shed light on the impact of spending time with animals on human physiological and psychological states.

The culmination of their efforts came in the form of a presentation that succinctly captured the essence of their research. Dinsara Ariyawansha and Laknath Bandara, two dedicated members of the committee, were tasked with conveying the findings to an eager audience. Their presentation likely covered the methodologies employed, the key findings, and the implications of their research. This moment not only showcased their ability to communicate complex ideas effectively but also highlighted their passion for the subject.



The symposium, an integral part of the competition, provided an opportunity for participants to share their research with a wider audience. Peers, educators, and experts likely engaged in thoughtful discussions, offering insights and posing questions that enriched the conversation around the effects of pet therapy.

Amidst this atmosphere of intellectual exchange, the committee's hard work and dedication were acknowledged and rewarded. The judges, professionals from the National Institute of Fundamental Studies (NIFS), recognized the significance of the committee's research by awarding it the distinction of being the 2nd best research in the entire competition. This recognition not only affirmed the quality of their work but also served as an inspiration for further exploration and inquiry.

In retrospect, the Explicatio 22 Annual Research Competition and Symposium marked a pivotal moment in the journey of these young researchers. Their commitment to investigating a topic that holds relevance in today's world, their meticulous research process, and their skilful presentation all underscored the potential of the younger generation to contribute meaningfully to the field of research.

Compendium 23

Compendium'23" was a quiz competition jointly organized by Mahamaya Girls College and Dharmaraja College in Kandy. The competition comprised two rounds. In the 1st online round, 14 schools participated, with the top 10 advancing to the next stage. Your team secured a place among the top 10 in this round.

The 2nd round was held in person at the Compendium'23 event at Dharmaraja's main hall. This round featured a mix of multiple-choice questions (MCQs) and essay writing. Our team, consisting of Sathmika Gunawardhane, Dinsara Ariyawansha, Laknath Bandara, Anupama Mallikarathne, and Kushen Dulanga, made it to the finals, competing against Hillwood Girls College Kandy.

In the final showdown, our team's exceptional performance earned you the champion title. Your combined knowledge, effective teamwork, and quick thinking proved instrumental in your victory. The triumph of Compendium'23 not only celebrates your academic prowess but also underscores the significance of collaborative efforts and unwavering dedication.

Kandy Educational Zone, Zonal Research Symposium 2023 - 10th May 2023

The Zonal Research Symposium at the Center for Educational Development, Research, and Training in Gurudeniya provided a platform for experts to share their latest findings. Our team presented our research on "Dealing with Diabetes and Developing an Artificial Pancreas." We discussed the challenges of diabetes and the potential of an Artificial Pancreas to transform management. Attendees received certificates of participation, and outstanding contributions were awarded. The symposium encouraged collaboration and left a mark as a hub of innovation and knowledge exchange.

Certificate holders – Aknula Lankeshwara Shenethra Darandakumbura Shashendra Thilakarathne Dulane Samarakoon



Riviru Manthilake Pawan Niyandagala Yasitha Pahalage

Abstract - Dealing with Diabetes and, To develop an Artificial Pancreas

Aknula Lankeshwara Shenethra Darandakumbura Riviru Manthilake Dulane Samarakoon Pawan Niyandagala Yasitha Pahalage

Presentation - Dealing with Diabetes and, To develop an Artificial Pancreas

Presented by – Aknula Lankeshwara Shenethra Darandakumbura Riviru Manthilake Dulane Samarakoon

Acatalepsy 23

A day of exploration and insight dawned with the Annual Research Day at Mahamaya Girls' College. On Acatalepsy 23, this hill country school hosted a dynamic symposium that opened doors to fresh perspectives and research discoveries.

The event's highlight was a presentation that delved into the "Effects of Human Activities on Aquatic Ecosystems around Kandy." Led by Kavira Rathnayake and Bhanuka Kumarathilake from Kingswood, this duo breathed new life into existing research. Their expanded investigation considered a broader range of factors, shedding light on the intricate relationship between human actions and aquatic environments.

In parallel, a captivating study tackled the management of diabetes and the innovative concept of developing an "Artificial Pancreas." This groundbreaking research pointed towards potential advancements in healthcare, signaling hope for those affected by diabetes.

Kavira Rathnayake and Bhanuka Kumarathilake's exceptional presentation earned them welldeserved accolades, affirming their dedication to expanding the boundaries of understanding.

The symposium celebrated curiosity, hard work, and the drive to push beyond conventional limits. Mahamaya's Annual Research Day, Acatalepsy 23, stood as a testament to the unending pursuit of knowledge in the heart of the hill country."



Insight'23

Organized by St.Joseph Vas College

Research - Dealing with Diabetes and, Developing an Artificial Pancreas

Aknula Lankeshwara Shenethra Darandakumbura Dulane Samarakoon

08/01/2023 - finalists selected for the Phase 02:

- 1. Dharmaraja College, Kandy
- 2. Holy Family Balika Maha Vidyalaya, Wennappuwa (Team A)
- 3. Kingswood College, Kandy
- 4. Bandaranayake College, Gampaha (Team A)

Our research team has been diligently working on our project for an extended period, and we've reached a significant juncture in our journey. We recently submitted the abstract of our research, condensing our findings and methodologies into a succinct preview of our work. This abstract serves as a glimpse into the core of our research, inviting interest and engagement from fellow researchers and experts in the field.









Research Publications

01) Completed Research

- 1. ගැහැනු පාසල් හා පිරිමි පාසල් ඣශයෙන් සිසුන් වෙන්කිරීමෙන් ඇතිවන මානසික පුශ්න
- අනුපම මල්ලිකරත්න
- චම්දු දිල්ශාන්
- මිහිදු අබේසිංහ
- 2. බුද්ධි ගලනය නිසා රටේ පැනනගින ගැටලු
- ටෙහන් නෙත්මින
- හිරුන තිසරු
- මිහිරංග කරුණාරත්න
- 3. The effects of 432Hz frequency relaxing music on the mind
- Seniru Wickramasooriya
- Thisal Thilakarathne
- R. A. Perera
- 4. A preliminary survey on colonization of Mars
- Sathira Thennakoon
- 5. Effects of human activities on aquatic ecosystems around Kandy
- Sathmika Gunawardana
- Laknath Bandara
- Malith Jayasinghe
- Tehan Nethmina
- Seniru Wickramasooriya
- 6. Effects of Astrology on Ancient Human Civilizations
- Dinsara Ariyawansha
- Kushen Dulanga
- Kehan Rathnasooriya
- Achintha Dineth
- Gagana Aloka
- 7. A study of the effect of Covid-19 Vaccination programme on youth community of Sri Lanka
- Dinsara Ariyawansha
- Laknath Bandara
- Sathmika Gunawardana



- 8. Study to identify the major factors affecting the mental depression of secondary school children in Kandy city limit.
- Shashendra Tillakaratne
- 9. Dealing with Diabetes and, To develop an Artificial Pancreas
- Aknula Lankeshwara
- Shenethra Darandakumbura
- Riviru Manthilake
- Dulane Samarakoon
- Pawan Niyandagala
- Yasitha Pahalage

02) Research projects under development

- 1. Integration of Better Water Management and Filtration for Sustainable Development in Kandy, from an Innovative Standpoint.
- ñksia fi!LH" wd¾Ólh yd ffcj úúO;ajh flfrys .xj;=r u.ska we;sjk RKd;aul n,mEï yÿkd .ksñka .xj;=r ;;a;ajh md,kh lsíug yd c,h ikSmdrlaldj" ñksia fi!LH /l .eksu ioyd WÑ; úiÿï fhdackd lsíu
- 3. Integration of a water management system to increase efficiency of irrigation systems.
- 4. Study on Nutritional Levels and Harmful Constituents of Fish Taken for Consumption from Different Regions of Sri Lanka.

03) Researches by young researchers

Kingswood Gentlemen Okitha Thennakoon is a young researcher who stands out in our school community. With about 70 inventions and research projects under his belt, he's displayed an impressive knack for innovation. His journey began at the age of 12 when he made his first invention. But his interest in science started much earlier, around grade 3. Thennakoon believes that his inventions have often sprung from his natural curiosity about the world and his desire to explore it through a scientific lens.

During the COVID-19 pandemic, when many were confined to their homes, Thennakoon saw an opportunity for unrestricted thinking. It was then that he conceived his very first invention – a novel method for generating electricity. This idea not only highlights his creative thinking but also underscores his concern for finding sustainable solutions to real-world problems.

Okitha's story is a testament to what young minds can achieve when fueled by curiosity, dedication, and a passion for discovery. As he continues to explore the realm of innovation, there's no doubt he'll leave a significant mark. He's an inspiration, showing that the pursuit of knowledge knows no bounds, and that for young scientists like him, curiosity and the drive to push boundaries are key.



- **4** Major researches he have been working on are,
- **4** Creating a more efficient and safer hydroelectric plant than the existing hydroelectric plants.
- ♣ A sky launch pad that launches rockets with less fuel burn
- Development of shock absorbing water fueled submarine
- 4 Generate electricity by vibrating helium gas and sending it through a vacuum
- Production of immune cells that fight viruses
- Produce plant cells that can survive the methane atmosphere
- Production of electricity through a pressurizer

04) Research Publications through Experzio 22 and Kingswood Research Unit

2		
Research Number	Title and authors	Page Number
NSCR01	ASTOUNDING IMPACTS OF GROWING PLANTS UNDER DIFFERENT COLORS OF LIGHT Manindri Epakanda <i>Girls' High School Kandy</i>	11
NSCR02	STUDY ON THE MICROBIOLOGICAL QUALITY ASSESSMENT OF FERMENTED DAIRY PRODUCTS. Anupama Illankoon, Kaveesha Ariyarathne, Guwani Nawarathne, Methma Kasundi, Dulanjalee Banneka <i>Girls' High School Kandy</i>	12
NSCR03	NATURAL DYE FOR DIFFERENT APPLICATIONS H.K.D.W.M. Tharushi, Dewmini Diwarathna Poramadulla Central College	14
NSCR04	EFFECTS OF HUMAN ACTIVITIES ON AQUATIC ECO SYSTEMS AROUND KANDY S.T.L Gunawardhane, H.G.W.A.T.Laknath Bandara, J.M.M.R. Jayasinghe, M.T.E. Nethmina, S.D. Wickramasooriya <i>Kingswood College Kandy</i>	15
NSOR03	CATERPILLARS D.P.Manudi.M.Peiris Girls' High School Kandy	16



NSOR04	EFFECTS OF SELECTED PLANT EXTRACTS ON GROWTH OF CHILLY PLANTS Sanuki Jayasuriya,Hesara Rajakaruna, Aravind Samarasinghe, Govindi Bandara <i>Mahamaya Girls' College kandy</i>	17
NSOR09	BACTERIA-NATURAL ENVIRONMENTALISTS Minidi Vitharana, Inuki Jayaweera, Thesara Wickramasinghe, Nethuli Pallewela Gamage, Pahandee Rambukwella, Thiseni Hewa Diyagahage <i>Musaeus College Colombo</i>	18
NSOR13	MOVEMENT OF AERIAL ANIMALS & MACHINES W.M. Hirosh Nividu, M.D. Ameesha Induwara, N.N. Thathmira Bandara, D.T. Sathsara Dineth, M.A. Pramodh Salgadu, W.Viruja Nethsuka <i>Mahanama College Colombo</i>	<u>19</u>
NSOR14	ANALYZING THE EFFECTIVENESS OF NATURAL DISINFECTANTS Chandrasekara. E. G. V. P., Liyanage. U. L. V. I, Pathirana. N. N. Dissanayake , G.W. D. M. P. B, Kalusinghe. K. B. B Dharmaraja College Kandy	20
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