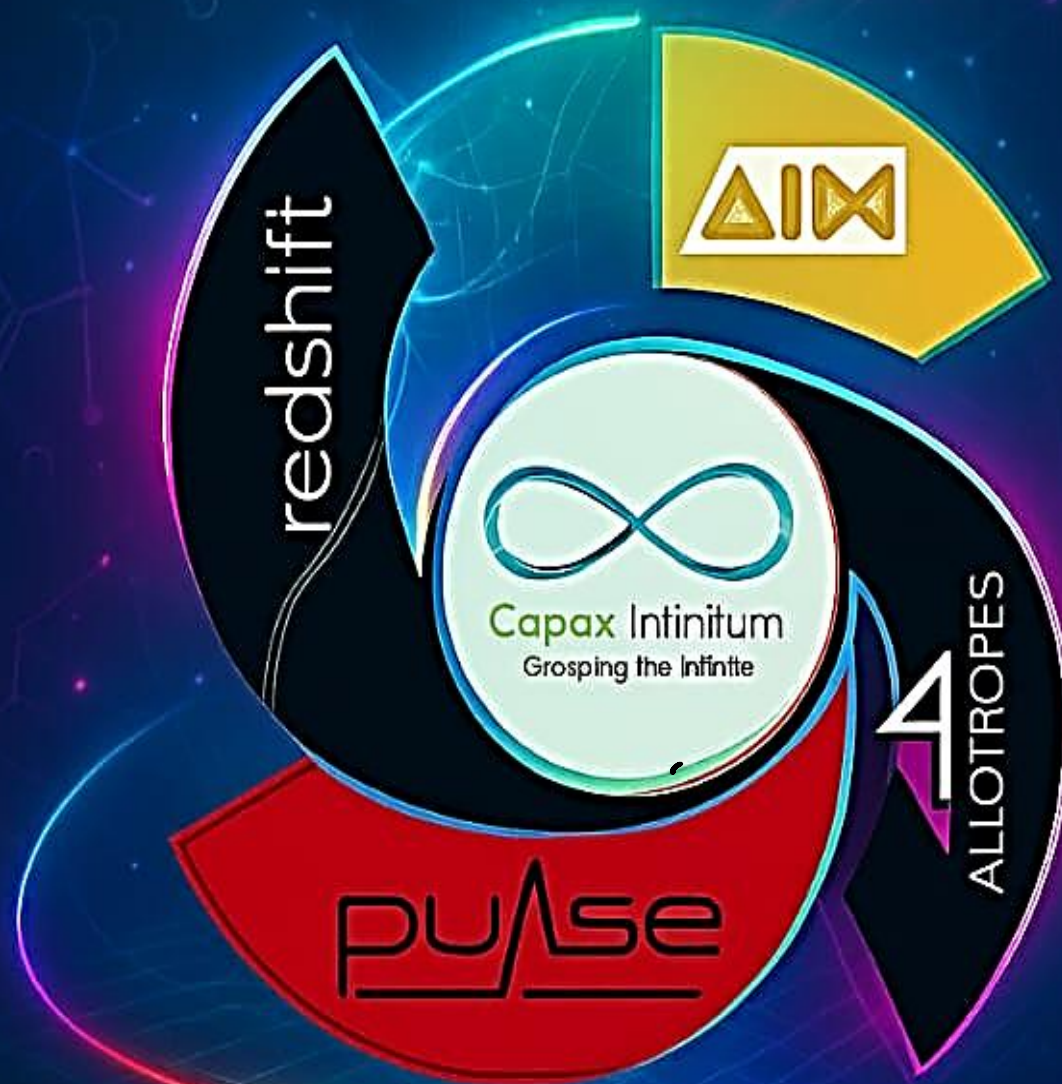


DELHI PUBLIC SCHOOL,  
SECTOR-45, GURGAON

# CAPAX INFINITUM 2025

*Grasping the Infinite*





# RULES AND GENERAL GUIDELINES

- Only one registration form will be accepted from the participating school.
- The date of submission for all the entries and the email ids along with the name of teacher coordinators have been mentioned in the guidelines of every event.
- A student cannot participate in more than one event.
- The decision of the judges will be final and binding for all the events.
- The link for confirmation of participation is given below. Kindly confirm your participation by Monday, 26<sup>th</sup> May 2025.  
<https://forms.gle/p2Au6yFt1Gnj8sMcA>
- The link for the registration is given below. The last date for registration is Monday, 7<sup>th</sup> July 2025.  
<https://forms.gle/M3z4qcr262C62ZX88>
- Teacher in-charges of the registered schools will be added to a WhatsApp group for smooth and timely communication.
- Entries are to be sent only from the official email id of the respective school.
- Entries for each event should be accompanied by a covering email which should mention name of the participating school, name of the event, participants' names and grades.
- In no circumstance the name of the school or the participant should be mentioned anywhere else in the submission.
- Onsite events will take place on Tuesday, 5<sup>th</sup> August 2025. This will be followed by announcement of results of both Online & Onsite events. The same will be shared with all the participating schools through the school portal of DPS, Sector 45, Gurgaon.
- The school must participate in all the events (both Online and Onsite) to qualify for the Overall Rolling Trophy.
- The certificates of participation will be e-mailed to the concerned schools on their official school id.
- For any queries regarding Capax Infinitum 2025, kindly contact:  
Sarita Singh - saritasingh@dpsgurgaon.org  
Ritu Jain - ritujain@dpsgurgaon.org  
Sunita Kandpal - sunitakandpal@dpsgurgaon.org  
Sonu Khandelwal - sonu.khandelwal@dpsgurgaon.org

# ONLINE EVENTS





# TIME TALKS

## *‘Conversations Across Centuries’*

Physics is not just confined to textbooks - it's the force behind everyday wonders of our world. From the swing of a pendulum to the mysteries of the universe, Physics has been at the heart of human curiosity and discovery. Through this event, we invite you to travel back in time and bring to life the stories of iconic physicists who shaped the scientific world from the 18<sup>th</sup> to 20<sup>th</sup> centuries.

Create a compelling short film that captures a conversation between two legendary physicists - one Indian and one International. Let them exchange ideas, showcase their discoveries, and explore how their work still resonates in today's world.

### *Guidelines:*

- Eligibility: Classes IX- XI
- Number of teams per school: 01
- Number of participants per team: 02
- Video Duration: 3 to 5 minutes
- Format: The video recording should be in mp4 format.

A creative dialogue-driven video featuring a meeting between two physicists (from different regions), discussing their contributions, discoveries and relevance today.

### *Inclusions:*

- A clear explanation or demonstration of at least one key Physics concept or experiment
- Costumes and props to authentically portray the era and characters
- Accurate historical references and scientific context
- A captivating script that balances education and engagement
- Submission: Mail your final video as a Google Drive link to the designated teacher coordinator by Monday, 21<sup>st</sup> July'25.
- Plagiarism will lead to disqualification.
- The judges' decision will be final and binding.

### *Judgement Criteria:*

- Scientific Accuracy
- Creativity and Originality
- Costume and Era Representation
- Clarity and Communication
- Team Coordination and Presentation





## *Teacher Coordinators:*

Ms. Renu Singh                      [renu.singh@dpsgurgaon.org](mailto:renu.singh@dpsgurgaon.org)  
Ms. Sonali Dewan                [sonalidewan@dpsgurgaon.org](mailto:sonalidewan@dpsgurgaon.org)

## *Student Coordinator:*

Anvi Singh Chauhan





# anveshan

## 'Unveiling Sustainable Solutions'

"Sustainability is not just about conserving the earth's resources; it's about preserving the very essence of life on this planet." - David Suzuki.

Sustainability is about meeting present needs without compromising future generations' ability to meet their own. The solutions for transitioning to sustainability involve innovation and knowledge creation.

Anveshan provides a platform for young learners to unlock the world of scientific innovation and present a research poster focusing on sustainable solutions to real-life problems.

### Guidelines:

- Eligibility: Classes IX-XII
- Number of teams per school: 01
- Number of participants per team: 02
- Each team will prepare a poster on A3 size sheet based on any one of the following topics:
  - Water Conservation and Management
  - Waste Reduction and Management
  - Health and Hygiene
  - Disaster Relief and Management

### Submission Process:

- The submission should be in the form of a PDF.
- Ensure that the name of the participants and the participating school should not be revealed in the PDF as this will lead to disqualification of the entry.
- All entries will be checked for plagiarism.
- Submission: Mail the PDF to the designated teacher coordinator by Monday, 21<sup>st</sup> July'25.

### Judgement Criteria:

- Originality and Creativity
- Clarity of Expression
- Visual Appeal and Relevance to the Topic
- SWOT Analysis
- Sustainable Solution to Real-Life Problem

### Teacher Coordinators:

Ms. Alka Verma

[alkaverma@dpsgurgaon.org](mailto:alkaverma@dpsgurgaon.org)

Ms. Moumita Das

[moumitadas@dpsgurgaon.org](mailto:moumitadas@dpsgurgaon.org)

### Student Coordinator:

Dhwani Mehta





# BIO TUNES

## *‘The Rhythm of Life’*

“Our biological rhythms are the symphony of the cosmos, music embedded deep within us to which we dance, even when we can’t name the tune.” - Deepak Chopra

Nature and all living organisms behave in an organised manner. The essence of life is ‘Systematic Chaos’ which makes it unique and intangible.

‘Bio Tunes’ provides an opportunity for students to capture this essence and create rhythmic rap song explaining a biological process or phenomenon.

### *Guidelines*

- Eligibility- Class IX-XII
- Number of teams per school: 01
- Number of participants per team: 02
- Duration: Maximum 2 min
- Record a self-composed rap song on a biological process or phenomenon.
- The rap song should be self-composed with music or beats.
- Plagiarism will lead to disqualification of the team.
- The process/ phenomenon should be explained clearly.
- The video recording should be in mp4 format.
- The name of the school should not be visible in the video.
- Both the participants should be visible in the video.
- The video should be uploaded as a Google Drive link and mailed to the designated teacher coordinator by Monday, 21<sup>st</sup> July’25.

### *Judgement Criteria*

- Originality
- Clarity of Concept
- Language
- Innovation
- Relatability

### *Teacher Coordinators:*

Ms. Deepti Puri      [deeptipuri@dpsgurgaon.org](mailto:deeptipuri@dpsgurgaon.org)

Ms. Shilpy      [shilpy@dpsgurgaon.org](mailto:shilpy@dpsgurgaon.org)

### *Student Coordinator:*

Gunika Satsangi





# ONSITE EVENTS







# PhysiXplore

## *'Where Ideas Meet Innovation'*

PhysiXplore is a unique celebration that brings together the brilliance of science and the joy of creativity. This event challenges students of Classes XI and XII to design innovative, functional and engaging toys that demonstrate the concepts of Physics to middle school learners (Classes VI to VIII). The event aims to foster scientific thinking, teamwork and creativity, while making Physics both accessible and fun.

### *Guidelines:*

- Eligibility: Classes XI-XII
- Number of teams per school: 01
- Number of participants per team: 02

### *Toy Specifications:*

- The toy must clearly demonstrate one or more principles of Physics.
- It should be safe, functional and preferably interactive.
- Originality is the key—either create something new or significantly modify an existing idea.
- Use of commercial kits or plagiarism will lead to disqualification.
- Avoid hazardous materials, sharp objects or exposed wiring.
- Battery-operated or electric models must be low-voltage and child-safe.

### *Preliminary Round (Online Submission):*

- Submit a 2-minute video (mp4 format) demonstrating the working of the toy.
- Share the video link via email to the designated teacher coordinator by Monday, 21<sup>st</sup> July'25.

The accompanying email must include:

- School name
- Event name (PhysiXplore)
- Names and grades of both participants
- Important: The video must not mention or display the name of the school or participants anywhere within the submission.
- Submissions will be evaluated based on originality, functionality, clarity of concept and relevance to Physics.
- Shortlisted teams will be notified via email by Friday, 25<sup>th</sup> July 2025.





## *Final Round (Onsite Presentation)*

- Selected teams will present their innovative toy in person to a panel of judges on Tuesday, 5<sup>th</sup> August 2025.
- Each team will be allotted 5–7 minutes for their presentation, followed by a Q & A session.
- Teams should be prepared to explain the scientific principle/s behind the toy, the design process, and how it enhances understanding for younger students.

## *Judgement Criteria:*

- Scientific Concept
- Originality and Creativity
- Functionality and Safety
- Interactivity and Engagement
- Presentation and Communication

## *Teacher Coordinators:*

Ms. Rohini Arya Sharma      [rohini.s@dpsgurgaon.org](mailto:rohini.s@dpsgurgaon.org)

Ms. Anny Narang              [anny.narang@dpsgurgaon.org](mailto:anny.narang@dpsgurgaon.org)

## *Student Coordinators:*

Shounak Kar





# AROGYA AI HACKATHON

## *'Revolutionizing Healthcare through AI'*

The Arogya AI Hackathon invites young innovators to design and develop ground breaking AI-based healthcare projects aimed at transforming medical care and improving lives. This hackathon challenges participants to harness the power of artificial intelligence, machine learning and data analytics to tackle critical healthcare challenges.

By focusing on problem-solving and creativity, the event empowers students to become the future leaders in healthcare technology. Join us to revolutionize healthcare with AI-driven solutions!

### *Guidelines:*

- Eligibility: Classes IX-XII
- Number of teams per school: 01
- Number of participants per team: 02
- Teams must develop an AI-based healthcare project addressing a specific healthcare problem (e.g. disease diagnosis or prediction, personalized medicine or treatment planning, etc.)
- The prototype should be aligned with SDG 3: Good Health and Well-Being.

### *Preliminary Round (Online Submission):*

- A 3-minute video presentation showcasing the prototype/project
- A write-up (PDF) explaining the project details, methodology and expected impact
- Video and write-up to be uploaded as a Google Drive link and mailed to the designated teacher coordinator by Monday, 21<sup>st</sup> July'25

### *Selection Process:*

- Entries will be evaluated based on the judgement criteria (mentioned below).
- Shortlisted teams will be notified via email by Friday, 25<sup>th</sup> July 2025.

### *Final Round (Onsite Presentation)*

- Shortlisted teams will present their projects or prototypes to a panel of expert judges on Tuesday, 5<sup>th</sup> August 2025.
- Each team will be allotted 4 minutes to present their prototype, followed by a Q&A session with the judges.
- Teams should also provide a project report during the final presentation.





## *Judgement Criteria:*

- Innovation and Originality
- Feasibility and Practical Application
- Relevance to Healthcare and SDG 3
- Team Collaboration and Effort
- Clarity of Communication

## *Teacher Coordinators:*

Ms Sonu Khandelwal

[sonu.khandelwal@dpsgurgaon.org](mailto:sonu.khandelwal@dpsgurgaon.org)

Ms. Jyoti Khurana

[jyoti.k@dpsgurgaon.org](mailto:jyoti.k@dpsgurgaon.org)

## *Student Coordinator:*

Drishti Agarwal







# ART AMBUSH

## *‘Where Curiosity Meets Creativity’*

"Equipped with his five senses, man explores the universe around him and calls it adventure science. When he invents, creates, and expresses, he calls the adventure science." - Edwin Hubble

Welcome to the Art Ambush - a celebration of creativity, innovation, and curiosity. This event brings together the imaginative world of art and the analytical power of science, challenging participants to explore ideas where these fields intersect. Participants will bring scientific concepts to life through brushstrokes and the harmony of colours.

### *Guidelines:*

- Eligibility: Classes IX-XII
- Number of teams per school: 01
- Number of participants per team: 02
- Time allotted: 90 minutes
- Participants must select a scientific concept from any field and create an original artwork (painting, sketching, etc.) that visually represents it.
- Participants will submit a brief writeup about artwork, explaining the concept and its artistic interpretation in maximum 100 words.
- Participants will bring their own blank A3 size sheet, colours and stationery.
- Plagiarism will result in disqualification.
- Decision of the judges will be final and binding.

### *Judgement Criteria:*

- Originality
- Clarity of Scientific Concept
- Visual Appeal
- Relevance to the Topic
- Creativity



*An example of artistic impression of DNA*

### *Teacher Coordinators:*

Ms Shuchi Gupta:

shuchigupta@dpsgurgaon.org

Ms Suruchi Sharma:

suruchis@dpsgurgaon.org

### *Student Coordinator:*

Sanvitti Aswal





# SYNC WITH SCIENCE

## *‘Harmonizing Movement with the Rhythm of Discovery’*

‘Sync with Science’ is an exciting event where students can showcase their creativity and understanding of scientific concepts through dance. By combining dance and scientific principles, teams will bring science to life in a fun and engaging way.

### *Guidelines:*

- Eligibility: Classes IX- XII
- Number of teams per school: 01
- Number of participants per team: 8-10
- Time allotted: 3-5 minutes (final onsite event)
- Decision of the judges will be final and binding
- Shortlisted teams perform on Tuesday, 5<sup>th</sup> August 2025, showcasing their understanding of science concepts through movement and choreography

### *Selection Criteria:*

- Submit a short video of 2 minutes in the mp4 format depicting the essence of the chosen concept. These entries are to be mailed to the teacher coordinator by Monday, 21st July 2025.
- The shortlisted team will be informed of their participation in the onsite performance by Friday, 25th July 2025.

### *Judgement Criteria:*

- Creativity and Originality in Choreography
- Scientific Relevance and Depth
- Costume and Prop Design
- Expressions and Coordination
- Adherence to Time Limit

### *Teacher Coordinators:*

Ms Ruchi Kapoor	<a href="mailto:ruchikapoor@dpsgurgaon.org">ruchikapoor@dpsgurgaon.org</a>
Ms. Reecha Sharma	<a href="mailto:reechasharma@dpsgurgaon.org">reechasharma@dpsgurgaon.org</a>

### *Student Coordinator:*

Mahekh Gupta





# CRYPTIC HUNT

*'Investigate... Analyse... Explore... Unravel'*

Cryptic Hunt is all about finding clues, deciphering them, and reaching the final answer by connecting the dots. Participants will need to use their critical, analytical and thinking skills to beat the competition. This hunt is a fun, outdoor, team building activity that involves following cryptic clues and prompts to find hidden treasures within a given time. It stimulates students to pay attention to detail and enhances their problem-solving and team-building skills.

## *Guidelines:*

- Eligibility: Classes XI - XII.
- Number of teams per school: 01
- Number of participants: 01
- Participants will be given 5 minutes to familiarize themselves with the school layout.
- Clues will be placed at strategic locations all around the school building.
- Clues will be related to different spheres of science.
- Students have to decipher clues to deduce the required answers.

## *Judgement Criteria:*

- Total Time Taken
- Problem Solving
- Concept Clarity
- Team Work

## *Teacher Coordinators:*

Ms Rachna Bhatia

[rachnabhatia@dpsgurgaon.org](mailto:rachnabhatia@dpsgurgaon.org)

Ms Grishma Sharma

[grishmasharma@dpsgurgaon.org](mailto:grishmasharma@dpsgurgaon.org)

## *Student Coordinator:*

Aadya Gupta





## EVENT TIMELINE

- *Registration:* 8:00–8:45 am
- *Inauguration:* 8:45 am
- *Result and Vote of Thanks:* 12:00 noon

## VENUE OF ONSITE EVENTS

<i>Event</i>	<i>Venue</i>
PhysiXplore	Physics Lab
Cryptic Hunt	Science Park
Sync with Science	Auditorium
Art Ambush	Biology Lab
Arogya AI Hackathon	ATL Lab







## IMPORTANT DATES

<i>Confirmation of Participation</i>	<b>Monday, 26<sup>th</sup> May 2025</b>
<i>Registration</i>	<b>Monday, 7<sup>th</sup> July 2025</b>
<i>Online/Prelims Submissions</i>	<b>Monday, 21<sup>st</sup> July 2025</b>
<i>Declaration of Prelims Round</i>	<b>Friday, 25<sup>th</sup> July 2025</b>
<i>Onsite Event</i>	<b>Tuesday, 5<sup>th</sup> August 2025</b>

