PARTICIPATION

1. Each school may send only **ONE TEAM** consisting of **THREE** students, escorted by a teacher as **TEAM LEADER,** preferably from the Mathematics faculty.

2. The team should comprise of one student from Grade 11, one from Grade 12 and the third may be from either of the grades.

3. The team members along with their leader are expected to arrive at Aditya Birla World Academy latest by 08:30 am on 21st November 2014.

EVENT SCHEDULE

08:30 am   Team Registration
08:45 am - 08:55 am   Inauguration and Introduction of teams
09:00 am - 10:00 am   **Clash of Mathematicians**: Individual Contest
10:20 am - 11:20 am   **Math Challengers**: Team Contest
11:45 pm - 13:00 pm   **Enigma**: The Research Report
13:00 pm - 13:45 pm   Lunch Break
14:00 pm - 15:00 pm   **Quizzitch**: Math Quiz
15:30 pm   Prize distribution

The best school will be awarded the Champion Trophy

Registration Form

INFINITY-2014

Details of the School	
Name	
Mailing Address	
Name of the Principal	
City	
Pin Code / Zip Code	
Phone Number	
Fax Number	
Email ID	
Details of Team Leader	
Name	
Contact Number	
Email ID	

Participants				
Sr.No.	Name (Block Letters)	Grade	DOB(dd/mm/yy)	Gender
1				
2				
3				

Completed registration form must be sent at infinity@adityabirlaworldacademy.com latest **by 3rd September, 2014.**

Competition Details

<u>CLASH OF MATHEMATICIANS (Individual Round):</u> This round will consist of 45 multiple-choice questions. Questions will include number, algebra, shape and measure, geometry, trigonometry, probability, calculus and statistics. These questions are designed to bend and stretch the student's mathematical knowledge. The two top scorers will be awarded – "Mathematician of the Year-2014". The individual scores will be added for the Champion trophy. Calculators are not allowed.

<u>MATH CHALLENGERS (Team Round)</u> : 10 problems will be given in the team round, arranged in increasing order of difficulty. Each question will be printed on a separate sheet of paper. The team members will be allowed 10 minutes to discuss and distribute the first 8 problems among themselves, each student to solve at-least one problem. Each team will have 35 minutes to write the solutions of the allotted problem independently with no further discussions or exchange of problems. The team will be allowed last 15 minutes to solve the last two problems together. Each problem is worth 30 points and will require complete solution for full credit. Partial credits will also be awarded. The total score of all contestants in each team will be considered as the team score. The teams will be ranked by their total scores. In case of a tie, the scores of the individual problems starting with the most difficult one will be considered. Prizes will be awarded to the three best teams. The five best teams will be selected for the MATH-QUIZ. The team round score from each school will be added to that school's points. Calculators are not allowed for this event.

<u>QUIZZITCH (Math Quiz):</u> The five best teams from the team round will participate in the quiz. There will be eight rounds of questions including identification of mathematicians and solving of tricky questions on the spot. The three best teams will be awarded.

<u>ENIGMA - The Research Report</u>:

"As far as the laws of Mathematics refer to reality, they are not certain; as far as they are certain they do not refer to reality"- Einstein

Every participating school must select a mathematical topic of their choice that will relate to the statement given above. Credit will be given to students who are able to best relate this statement with real life.

The Research Report will be evaluated as a part of the competition. The reports that do not adhere to the following guidelines may be disqualified from the competition.

<u>Overall Report Requirements</u>

- The research Report must be written by the students.

- No students names or references to gender ("he" or "she"), high schools, school officials, advisors, mentors affiliated research organizations, acknowledgements or any other identifying information of the entrants are to appear anywhere in the Research Report. Any such reference may lead to disqualification.

- Any piece of information that is not original or common knowledge must be accurately cited and quoted within the research report.

- All citations and references must be appropriately made. All images, figures, statistical diagrams must be cited. Any form of plagiarism, if detected, will lead to disqualification.

- Adhere to an 18 page limit. This limit includes the introduction, text, tables, data, illustrations and appendices. Note: The Abstract and References are not included in this.

- Format: Double –spaced, with page numbers at the bottom "centre".

- Use 12 point Times New Roman font for the body of the report.

- Saved only as a PDF document.

- The Research Report will be assessed on the following:

  - ➢ Mathematical content

- ➢ Creativity and Originality
- ➢ Applicability and Relevance
- ➢ Overall presentation

Abstract (not included in the 18 page limit for the Research Report)

Abstract is a technical synopsis of the problem, methods, results and conclusions. It should of 100-200 words, should include the Research Report title at the top and be the first page of the submitted report.

The panel of educationists will select 5 best presentations and the school will be informed about it. The respective teams need to present it to the panel of judges followed by a questionnaire session. Each selected school will be allotted 15 minutes: 12 minutes for presentation and 3 minutes for questionnaire session. The teams can make their final presentation through power-point, the matter being the same as what has been submitted and posters, if required. The three best teams will be awarded.

The completed Research Report must be emailed at
infinity@adityabirlaworldacademy.com by 15th October 2014.