

CIPHER (2021-22) (A VIRTUAL FIESTA)

CLASS VI

DATE: 27.08.21

EVENT – TANGRAM JIGSAW

NO. OF PARTICIPANTS – TWO PER SECTION

Preliminary Round 1:

Event coordinator: Respective Subject teachers

Students of all sections of class 6 who were interested in participating were given a Quiz of maximum 10 marks with a time limit of 5 minutes.

Students who scored more than 7 marks were declared as winner of preliminary round 1.

Preliminary Round 2:

The winners of preliminary round 1 were asked to prepare two shapes on the decided theme using Tangram within time limit of 8 minutes. From each section two students were selected as winners of preliminary round 2.

Final Round:

The participants were given a target shape (image) in outline and they recreated the same shape using tangram pieces. First 6 participants completing the target figure were selected for second Round. Participants were asked to arrange the tangram pieces to make a HEXAGON.

Event Incharges – Ms. Shweta Negi and Ms. Rakhi Tyagi

Judges: Ms Priyanka Tawakley and Mr. Pradeep Rakshit

Result: First 3 positions were declared in the following order:

First position	–	VI G	Aashi Mehndiratta
Second position	–	VI B	Khushween Kaur
Third position	–	VI D	Ananya Singh





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CLASS VII

DATE: 27.08.21

EVENT – MODEL MAKING USING 3D SHAPES

NO. OF PARTICIPANTS – ONE (INDIVIDUAL PARTICIPANT) FROM EACH SECTION

Preliminary Round:

Event coordinator: Respective Subject teachers

All the students were given a task to make nets of two solid shapes with the given measurements within the given time frame. Students gave the brief description of their idea of making a 3D model from best out of waste in the final round. One student per section was selected for the final round on the basis of precision and time taken for the nets making.

Final Round:

Event coordinator: Ms Yasheel Gupta and Ms Taru Malhotra

Judges: Ms Jyoti Sharma and Ms Pranita

The students selected for the final round made models using 3D and 2D shapes on the online google meet. The students used cube, cuboid, triangular pyramid, cone, cylinder and portrayed a scene through it.

Students and the teachers put in their sincere efforts to make the project a success.

Result: First 3 positions were declared in the following order:

7 E	Amber Khara	_____	First position
7 A	Abuzar	_____	Second position
7 B	Pragyan Tawakley	_____	Third position



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CLASS VIII

DATE: 27.08.21

NAME OF THE EVENT – STORYTELLING

NO. OF PARTICIPANTS – TWO PER SECTION

“The moving power of mathematical inventions is not reasoning but imagination”.

In this event, students from all the sections narrated very beautiful stories with innovative ideas of mathematical concepts along with creative props. Each participant has shown their best efforts and were remarkably good.

This activity nurtured creativity as well as critical thinking amongst the students and helped them hone their communication skills which will facilitate their holistic development. Some glimpses of the event are shown below.

It was a well-organized competition and the best three performances were rewarded.

Result: First 3 positions were declared in the following order:

POSITION	CLASS/SEC	NAME OF THE STUDENTS
FIRST	VIII E	Aryan Keshwani
	VIII F	Krish Devgan
SECOND	VIII A	Tapas
	VIII G	Syed Aqdas Ali
THIRD	VIII D	Anika Saksena
	VIII H	Ibaad Umair

Event Coordinators – Ms.Rashmi Bhartiya and Ms. Davesh Lobo

Judges: Ms Manisha Paul and Ms Neha Shrivastava



CIPHER (2021-22) (A VIRTUAL FIESTA)

CLASS IX

DATE: 27.08.21

NAME OF THE EVENT - TREASURE HUNT

NO. OF PARTICIPANTS – FIVE PER SECTION

The TREASURE HUNT event was aimed at igniting the spirit of mathematical understanding among the students. The questions were based on Mathematical Aptitude, Logical Reasoning and Mental Ability. The Problem solving and Critical thinking skills of the students were tested.

PRELIM ROUND:

Event coordinator: Respective Subject teachers

All the students from all sections of Class IX participated in the QUIZ Round. The participants were given a google form containing 15 questions and 20 minutes to answer all the questions. From this round, the top 5 highest score achievers from each section of Class IX moved to Round 2.

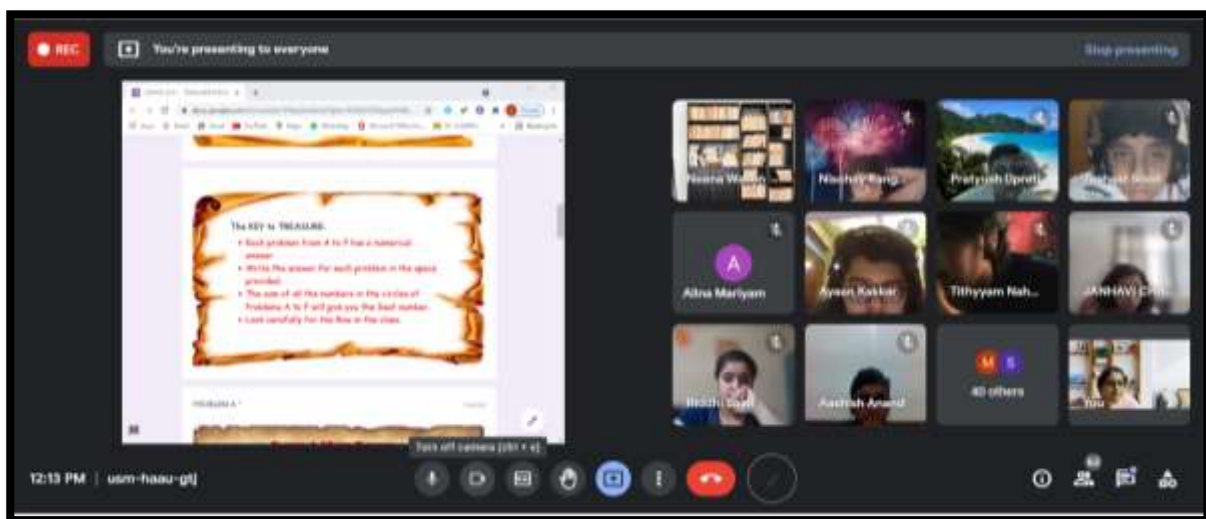
FINAL ROUND: The participants were given a google form containing 6 questions and 45 minutes to answer all the questions. The numerical answers gave the clues to the location of the TREASURE. From this round, the top 5 highest score achievers were declared the winners.

Event coordinators: Ms Vandana Garg and Ms Neena Wason

Result: First 3 positions were declared in the following order:

1 st	Rishit Kunwar	IX F
2 nd	Raghav Aggarwal	IX F
3 rd	Aryan Rajshekhar	IX I
3 rd	Nischay Rangwani	IX F
3 rd	Rhythm Gupta	IX A





CIPHER (2021-22) (A VIRTUAL FIESTA)

CLASS XI

DATE: 27.08.21

NAME OF THE EVENT: DISCOVERIES IN MATHEMATICS

NO. OF PARTICIPANTS – TEAM EVENT (11 TEAMS)

In this event each team made and presented a power point presentation based upon the lives and achievements of one Mathematician. The students showed the main work such as theorems or mathematical models given by the mathematician and also mentioned some real-life applications of the theorems in their presentation. The studies of Euler, Gauss, Mahavira, Pascal were presented beautifully by each team. The audience got the chance to learn a lot of different methods and untouched parts of mathematics through their peers, such as Collatz conjecture and along with that, Pythagoras theorem, Basic Proportionality theorems were revisited.

The teams were judged on the basis of presentation, speech and content.

Event coordinator: Ms Manisha Paul and Ms Rashmi Sagar

Judge: Mr Naveen Kumar and Ms Rashmi Sagar

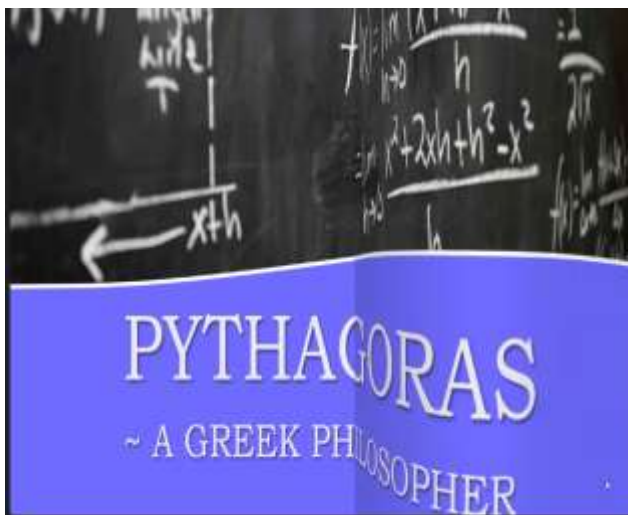
Result: First 3 positions were declared in the following order:

POSITION	CLASS/SEC	NAME OF THE STUDENTS
FIRST	XI B	Arnav Singh Sethi
		Arya Dayal
		Ananya Bhatia
		Astha Rai

SECOND	XI C	Raima Tandon
		Reva Dube
		Surmai Gurung
		Vasvi Chopra
THIRD	XI A	Abhinav Ranjan
		Padam Arora
		Rushil Singhania
		Siddharth Kumar

Event coordinator: Ms Manisha Paul and Ms Rashmi Sagar

Judge: Mr Naveen Kumar and Ms Rashmi Sagar



Many different proofs and extensions of the Pythagorean theorem have been invented. Taking extensions first, Euclid himself showed in a theorem praised in antiquity that any symmetrical regular figures drawn on the sides of a right triangle satisfy the Pythagorean relationship: the figure drawn on the hypotenuse has an area equal to the sum of the areas of the figures drawn on the legs.

The Pythagorean theorem has fascinated people for nearly 4,000 years; there are now more than 300 different proofs.

THALES THEOREM

This proportionality theorem was proposed by a famous Greek mathematician, Thales, hence it is also referred to as the Thales theorem.

STATEMENT: If a line is drawn parallel to one side of a triangle intersecting the other two sides in distinct points, then the other two sides are divided in the same ratio.

GIVEN: Consider a triangle $\triangle ABC$, as shown in the given figure. In this triangle, we draw a line DE parallel to the side BC of $\triangle ABC$ and intersecting the sides AB and AC at D and E , respectively.

CONSTRUCTION: In the above diagram, create imaginary lines where you can join C to D and B to E . Draw perpendicular DP perpendicular to AE and EQ perpendicular to AD .

Features of Pascal's Triangle

Pascal's triangle are binomial coefficients. Each number is the sum of the two numbers above it. The tip of the triangle and the sides are all ones. The numbers forming the body of the triangle are the addition of the two immediately above. For example, the middle number in the third row is the addition of the two numbers from the second row. Pascal presented this information in written form in 1653.