



BIRLA PUBLIC SCHOOL GANGANAGAR

(A Unit of Birla Education Trust Pilani)

(A step ahead.....)

CBSE Affiliation No. 1730974

TRIGONOMETRIC TRIBE

“Angles hold the secrets of the universe, and trigonometry unveils them.”

Maths Event Report: TRIGONOMETRIC TRIBE

Date: November 4, 2023

Total no. of Students: 37

No. of Participants: 30

Objective: Trigonometry serves the fundamental objective of exploring and comprehending the intricate connections between angles and sides of triangles. Its primary goal is to provide a mathematical framework for modeling, solving, and describing real-world problems, particularly in fields like physics, engineering, and architecture. By offering a systematic approach to quantify geometric relationships through trigonometric functions, such as sine, cosine, and tangent, trigonometry facilitates precise measurements, aids in understanding periodic behavior, and acts as a foundational stepping stone for advanced mathematical concepts like calculus. Ultimately, its purpose is to empower problem-solving and critical thinking skills while enabling the practical application of mathematical principles in a wide range of disciplines.

Methodology:

Lecture and Explanation: Traditional classroom teaching involves instructors explaining trigonometric concepts, definitions, and formulas. Students take notes and ask questions to gain a theoretical understanding of the subject.

Visual Aids: Visual aids, including diagrams, charts, and graphs, are crucial in trigonometry. They help students visualize geometric relationships, such as angles and sides in triangles, and understand how trigonometric functions like sine, cosine, and tangent are derived.

Practical Demonstrations: Practical demonstrations using tools like protractors, rulers, and trigonometric tables help students apply trigonometric principles to real-life situations. For example, students may measure the height of a building or the distance to a distant object using trigonometric concepts.

Problem-Solving: Trigonometry is best learned by solving problems. Teachers provide a variety of problems for students to solve, reinforcing their understanding of trigonometric concepts. Problems range from basic right triangle trigonometry to more complex applications.

Brief Note on the Event: "Trigonometric Tribes" is a fantastic opportunity for Grade 10 students to dive into the world of trigonometry, a subject that will not only help you excel in mathematics but also find applications in various aspects of your life. We encourage all students to actively participate and make the most of this educational and enjoyable event. By the end of the day, we hope you'll have a deeper appreciation for the beauty and usefulness of trigonometry.

Outcome of the Activity: By the end of the event, students can expect to:

- Understand the fundamental concepts of trigonometry, including angles, sides, and trigonometric functions.
- Apply trigonometric principles to solve practical problems involving triangles and angles.
- Appreciate the real-world applications of trigonometry in various fields.



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- Build a strong foundation for advanced math studies and future careers that require mathematical skills.

Conclusion: "Trigonometric Tribes" is a fantastic opportunity for Grade 10 students to dive into the world of trigonometry, a subject that will not only help you excel in mathematics but also find applications in various aspects of your life. We encourage all students to actively participate and make the most of this educational and enjoyable event. By the end of the day, we hope you'll have a deeper appreciation for the beauty and usefulness of trigonometry.

Evidence of Photographs with no. : 02



ESTD. 2019

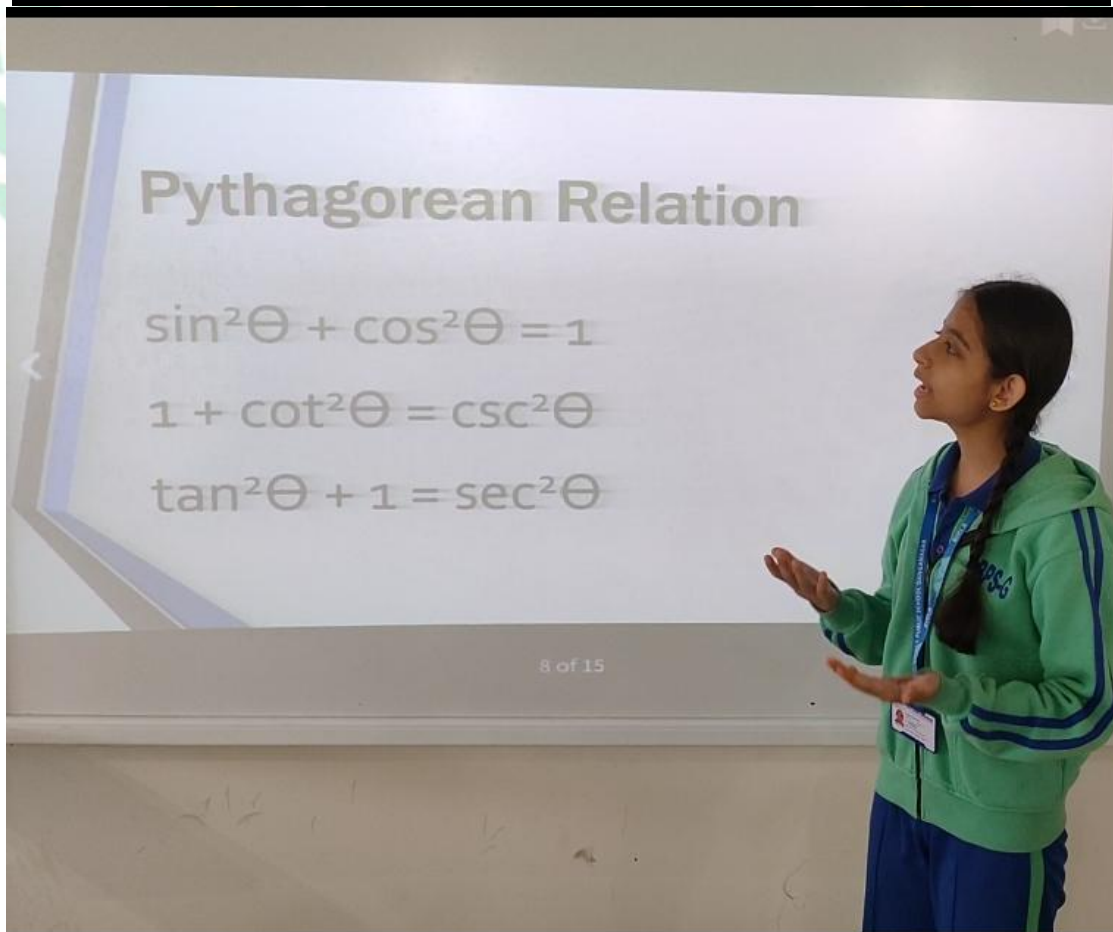
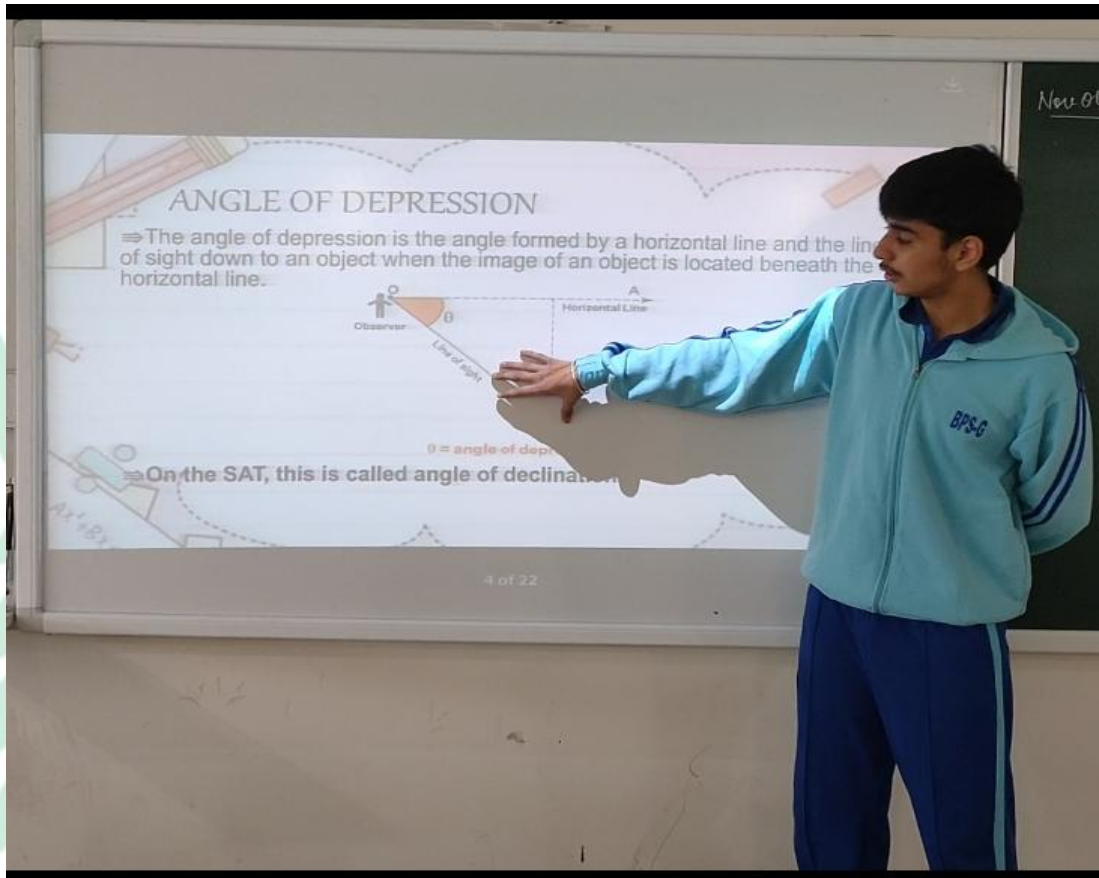


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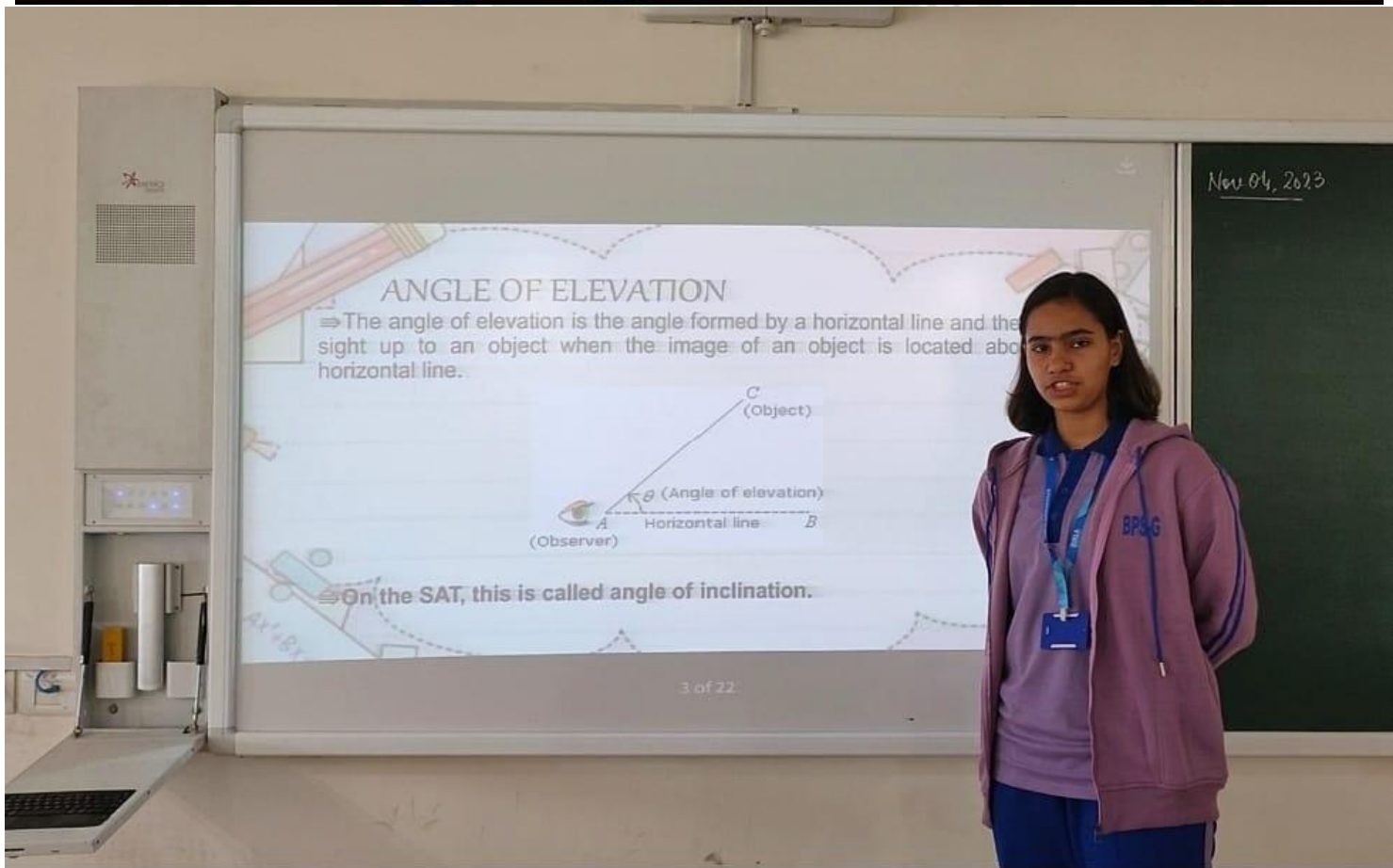




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Teacher Name & Signature with Date:

Mr. Vinod Kumar

4 November, 2023

Enclosure:

Poster and Circular of the event shared with parents/students and on different social media platforms.

The poster features the school's logo and name at the top, followed by its affiliation and a description of the school. The main event details are listed on the left, and a trigonometry diagram is on the right. The diagram shows a right-angled triangle with a 45-degree angle, a hypotenuse, and a ruler for scale. Below the diagram, the formula $\frac{\text{Opposite}}{\text{Adjacent}} = \tan \theta$ is shown with a crystal ball icon.

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A WORLD CLASS AIR-CONDITIONED ENGLISH MEDIUM CO-EDUCATIONAL CBSE SENIOR SECONDARY DAY SCHOOL, DAY BOARDING AND BOARDING SCHOOL

MATHEMATICS EVENT
“TRIGONOMETRIC TRIBES”

Date: 06 November 2023
Day: Monday
for
Class: 10th
Venue: Mathematics Lab

Trigonometry

hypotenuse
45°

$\frac{\text{Opposite}}{\text{Adjacent}} = \tan \theta$

www.bpsg.edu.in [BPS-Ganganagar](https://www.facebook.com/BPS-Ganganagar) [Bpsganganagar](https://www.youtube.com/channel/UC...)

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CIRCULAR

Dear Parents/Students,
“Mathematics teaches us that there is every reason to believe that every problem has a solution.”

Mathematics is a significant part of human logic and thoughts. It gives an effective way to create mental discipline and increases logical reasoning. The learning experience can enhance when the students relate their subject to real-life situations. Keeping the same in mind, BPSG is going to organise a Mathematics Event- TRIGONOMETRY TRIBE on 4 November, 2023.

For Class – X

Event – TRIGONOMETRY TRIBE

The Topics for reference are as follow: -

- Trigonometric world
- Trigonometric ratios
- Trigonometric relation
- Trigonometric identities
- Application of trigonometry

Rubrics for Assessment: Students will be assessed on the following parameters:

▪ Logical and Mental Reasoning	▪ Concept Clarity	▪ Mental Ability	▪ Accuracy
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Note:

- Students need to create and represent project on any of the above topic with innovative ideas
- They need to represent it after discussing its procedure and importance.
- Participation is compulsory for all.

Regards
BPSG