



Session: 2025-26

Class: XI

EVENT REPORT

Day & Date: 28/01/2026 (Wednesday)

Class: XI

Event Name: Set Theory – The Power of Collection

Category: Class Event

Objective of the Event

The Mathematics enrichment activity “Set Theory – The Power of Collection” was organised to deepen students’ conceptual understanding of Set Theory and its role as a foundation of modern mathematics. The event aimed to develop clarity of concepts related to sets, relations, and operations, promote analytical and logical reasoning, encourage teamwork, and enable students to connect mathematical concepts with real-life contexts and data organisation.

Gr.11 Circular Set Theory

Description of the Event

The event was conducted during regular school hours and witnessed active participation from Class XI students. Through interactive and engaging sessions, students explored key ideas such as unions, intersections, Venn diagrams, and real-life applications of sets. The activities were designed to move beyond textbook learning and promote conceptual clarity, creativity, and application-based understanding.

Gr.11 Circular Set Theory

Activities Conducted

The programme included the following student-centric activities:

- **Concept Quest:** Quiz on basic and advanced concepts of Set Theory
- **Venn Vision:** Designing creative, real-life-based Venn diagrams
- **Application Arena:** Group discussion on the use of Set Theory in technology and data management
- **Math Integration Challenge:** Relating sets to functions and probability through examples

Gr.11 Circular Set Theory

Student Participation and Learning Outcomes

Students participated enthusiastically and worked collaboratively in teams. The activities strengthened their understanding of Set Theory, enhanced logical reasoning and analytical skills, and improved their ability to apply concepts in practical contexts. The creative presentations and discussions reflected improved confidence and conceptual clarity.

Conclusion

The event successfully enriched students' understanding of Set Theory and highlighted its relevance in real-life applications and advanced fields such as data science and computer science. The Department of Mathematics plans to continue organising such enrichment activities to promote deeper learning and application-oriented thinking among students.

1) Evidence of Poster:

BIRLA PUBLIC SCHOOL GANGANAGAR
(A UNIT OF BIRLA EDUCATION TRUST PILANI) CBSE AFFILIATION NO. 1730974

GRADE XI
SET THEORY

THEIR RESPECTIVE CLASS
28TH JANUARY 2026

- ★ DEEP DIVE INTO CONCEPTS
- ★ ENGAGING DISCUSSIONS
- ★ PROBLEM SOLVING

www.bpsg.edu.in BPS-Ganganagar Bpsganganagar

2) Evidence of Circular-

ESTD. 2019



Session: 2025-26

Ref No. BPSG/2025-26/EC/0063-XI

Mathematics Event Announcement

Set Theory – The Power of Collection

Date: 28th January, 2026

Dear Students,

We are delighted to announce that **Birla Public School** will be organizing a Mathematics enrichment activity titled "**Set Theory – The Power of Collection**" for the students of **Class XI**. This initiative aims to deepen students' understanding of **Set Theory**, one of the fundamental building blocks of modern mathematics, through interactive and thought-provoking activities.

Objectives:

The main objectives of *Set Theory – The Power of Collection* are to:

- Develop clarity in the concepts of sets, relations, and operations.
- Encourage analytical and logical reasoning among learners.
- Promote teamwork and application-oriented mathematical thinking.
- Enable students to connect Set Theory with real-life contexts and data organization.

About the Topic – Set Theory:

Set Theory is the **foundation of modern mathematics** – it forms the basis for algebra, geometry, probability, and computer science. The concept of grouping and categorizing elements into sets allows us to understand relationships, organize data, and solve complex problems logically.

Through this activity, students will explore **unions, intersections, Venn diagrams, and real-life applications** of sets in an engaging and creative manner.

Importance:

Understanding Set Theory enhances logical reasoning and problem-solving ability. It helps students analyze information systematically, an essential skill in fields such as **data science, artificial intelligence, and statistics**. This activity will strengthen the mathematical foundation required for higher studies and research-oriented learning.

Activities to be Conducted:

- **Concept Quest:** Quiz on basic and advanced concepts of Set Theory.
- **Venn Vision:** Designing creative and real-life-based Venn diagrams.
- **Application Arena:** Group discussion on the use of Set Theory in technology and data management.
- **Math Integration Challenge:** Relating sets to functions and probability through examples.

Venue, Date & Time:

Venue: Respective Classrooms – Class XI

Date: 28th January 2026

Time: During Regular School Hours

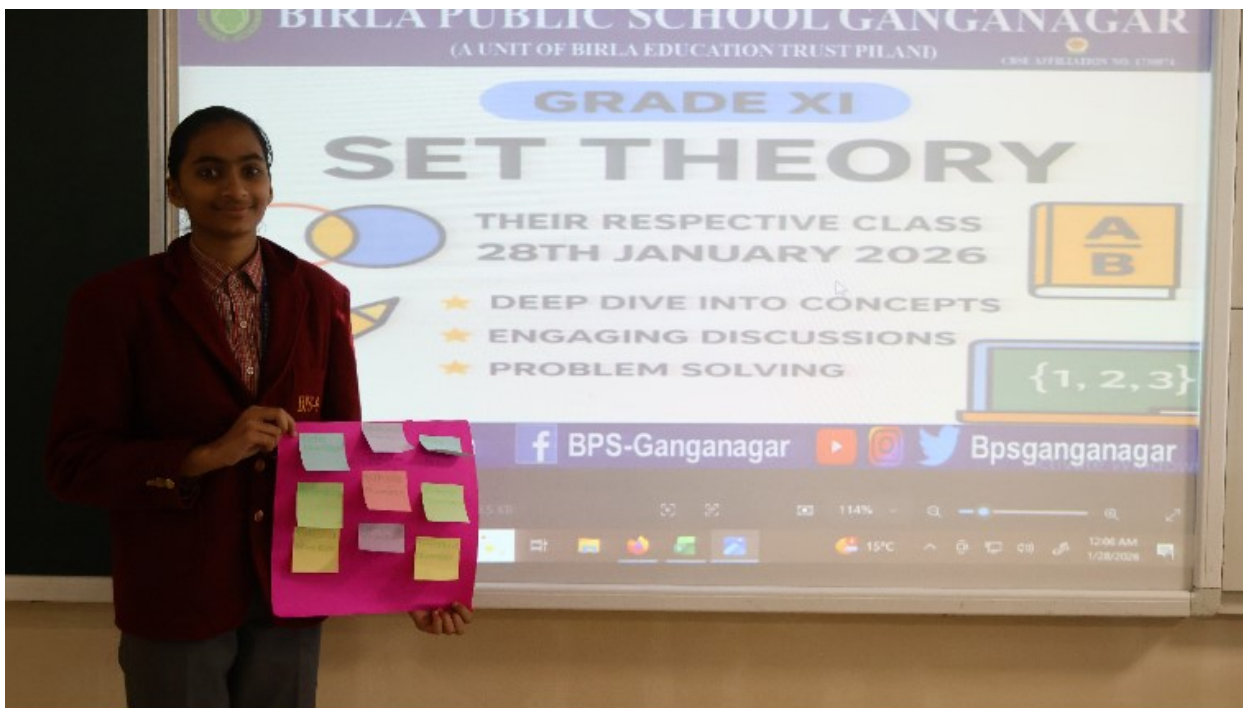
We encourage all students to participate enthusiastically and explore how "**Set Theory**" forms the backbone of mathematical logic and everyday reasoning.

With best wishes,

Head of Department (Mathematics)

Birla Public School, Ganganagar

3) Evidence of Photographs:



Teacher's name-Mr. Ramesh Kumar Sharma
Class- XI

ESTD. 2019