



Beyond The Earth

A PROJECT BY STUDENTS OF GRADE-6

**BHAGYALAXMI SARLA GURUSAHANI MEMORIAL (BSGM) SCHOOL
AND JUNIOR COLLEGE (SCIENCE),
GURUSAHANI NAGAR, N-4, CIDCO,
AURANGABAD.**







What is Project Based Learning?

Project-Based Learning (PBL) is a teaching method where students learn by actively engaging in real-world projects or problems instead of just memorizing concepts.



OVERVIEW OF THE PROJECT:

Project Title: *Beyond the Earth*—Grade 6 PBL journey

Theme: Life, science, and imagination beyond our planet

Approach: Beyond textbook learning

Skills: Critical thinking

Subjects Integrated: Science, Maths, Social Studies, English, Art, Hindi, Marathi, Technology

Outcome: Innovative, interdisciplinary projects



Objectives of The Project:

- **Mission Objectives:**
 - Survive and adapt in space
 - Study celestial bodies
 - Explore science and imagination
- **Aim:**
 - Inspire curiosity
 - Encourage big dreams and deeper learning



Launch Of the The Product





Teacher-student discussion during Launch

7





Question and Answer Session

8





Discussion on end product

9





Field Visit

10





Field Visit

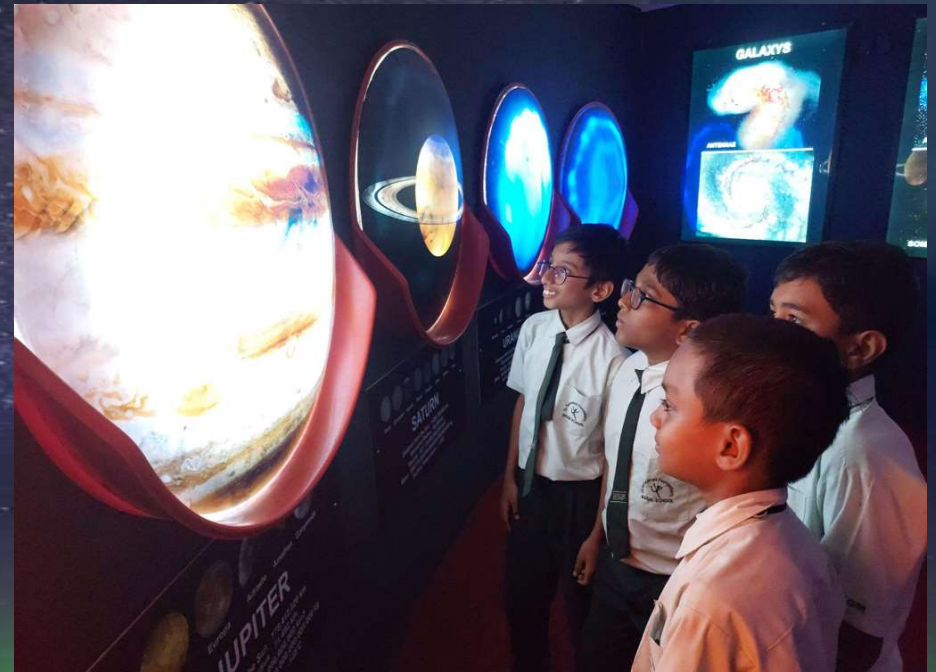
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Field Visit

12





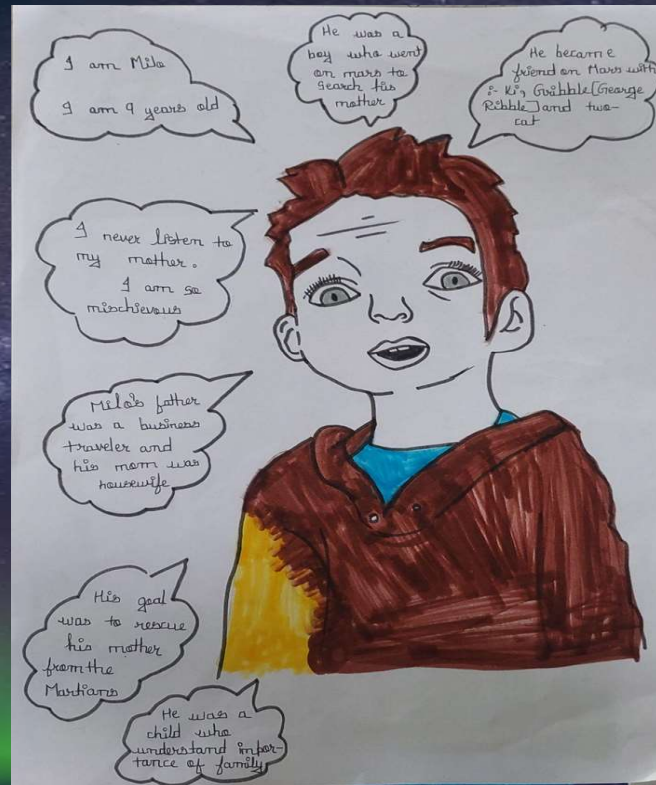
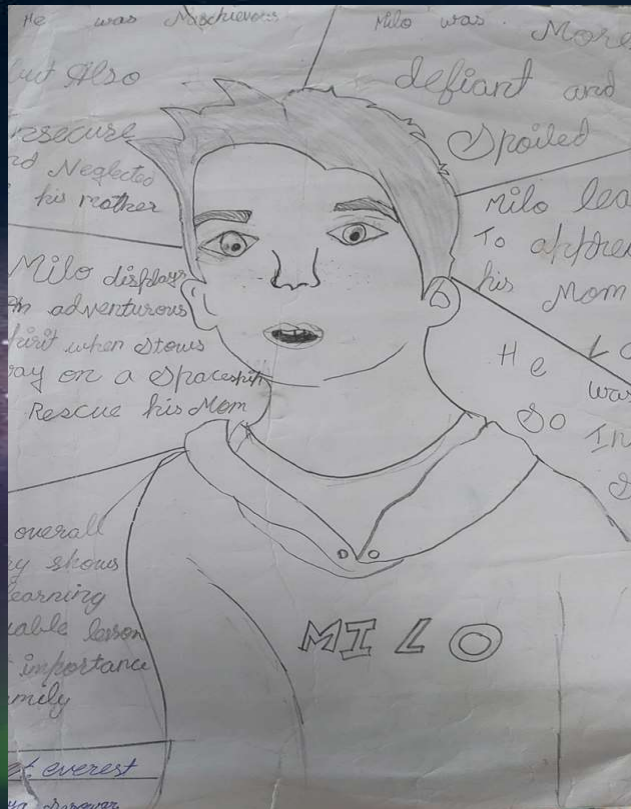
Movie - Time

13



Character - Sketch!

14



Expert - Talk

15



Expert - Talk

16





Research & Digital Tool

17





Spacecast - Students Speak, World Listens!

18





Students converting their ideas into stories



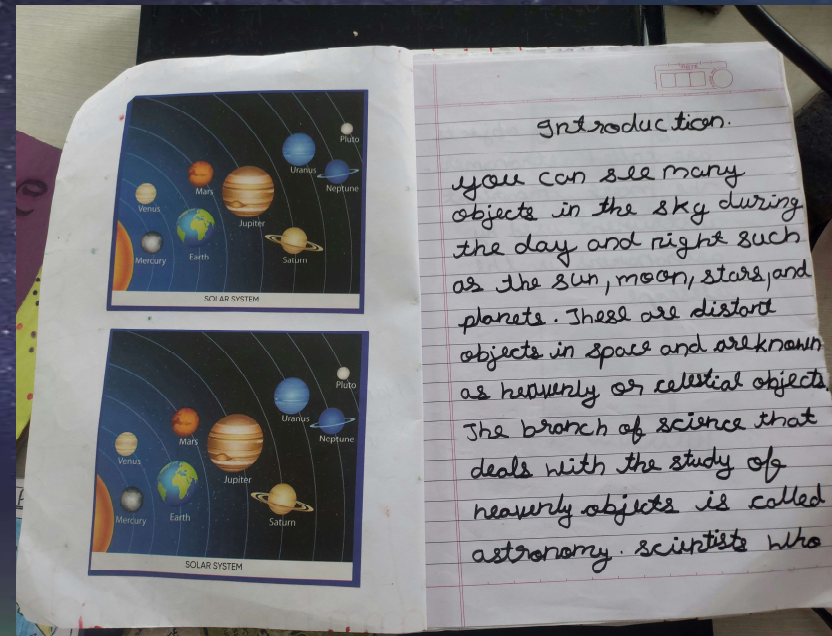
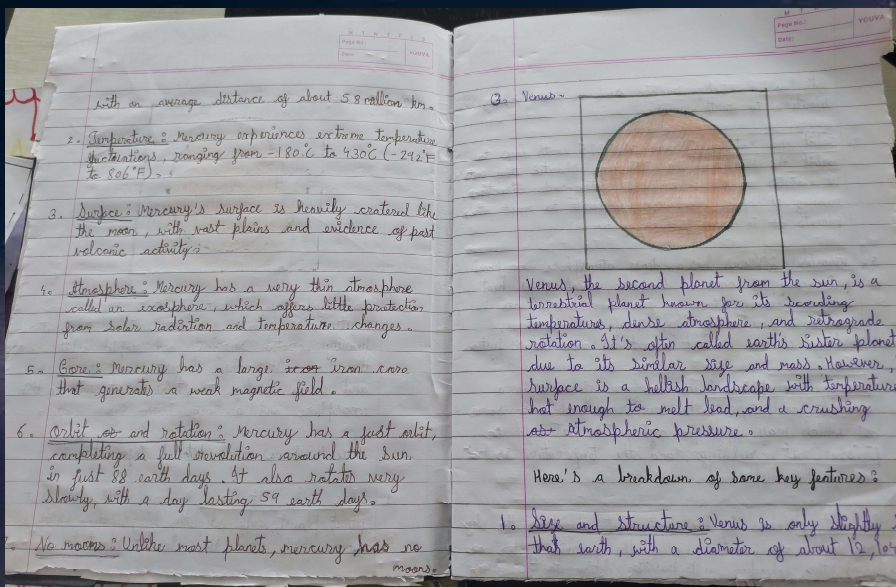


Students converting their ideas into stories



Drafts of students on Beyond the Earth

21



SUBJECT INTEGRATION

1. ENGLISH
LITERATURE
2. ENGLISH
GRAMMAR

MARATHI

SCIENCE

MATHS

DRAWING

HINDI

SST

COMPUTER



ENGLISH LITERATURE

Writing Skills :

Letter Writing: Formal Letter Writing

Letters

Formal letter

Format of letters

Formal letter- Those letters which are written for official purpose, are known as formal letters.
Like- to Collector, to Editor, to Manager, to Director etc.

Address
30 Aug 2019

To
The _____

Sub: _____

Respected Sir,

I would like to draw your attention

I shall be thankful / obliged to you

Yours _____

Informal letter

Format of Informal letter

Address
30 Aug 2019

Dear _____

I am fine here and I hope you will be fine there with your family.

Convey my regards

Yours _____

Name _____

To
The director
B.R. Ambedkar Planetarium
Chh. Sambhajnagar,
Maharashtra
Date :- July 9, 2025

Subject :- Requesting permission to visit the planetarium

Respected Sir,

We the students of Bhagyalaxmi Sarla Gurusahani Memorial School, Chh. Sambhajnagar are writing to respectfully request your permission to visit the B.R. Ambedkar planetarium on 9th July 2025 as a part of our project based learning.

We kindly request you to grant permission for visit. We will also be grateful if you could share the available time slots and any application entry fees looking forward to your positive responses.

Thank you,

Yours sincerely,
Vishal

Student Representative
Grade VI
BSGM School

To
The director
B.R. Ambedkar Planetarium
Chh. Sambhajnagar,
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Subject :- Requesting permission to visit the planetarium

Respected sir,

We the students of Bhagyalaxmi Sarla Gurusahani Memorial School, Chh. Sambhajnagar are writing to respectfully request your permission to visit the B.R. Ambedkar planetarium on 9th July 2025, as a part of our project based learning.

We kindly request you to grant permission for visit. We will also be grateful if you could share the available time slots and any application entry fees looking forward to your positive responses.

Thank you,

Yours sincerely,
Aniruddha

Student Representative
Grade VI
BSGM School

To
The Director,
B.R. Ambedkar Planetarium,
Chh. Sambhajnagar,
Maharashtra.

Date :- July 9, 2025.

Subject :- Requesting permission to visit the planetarium.

Respected sir,

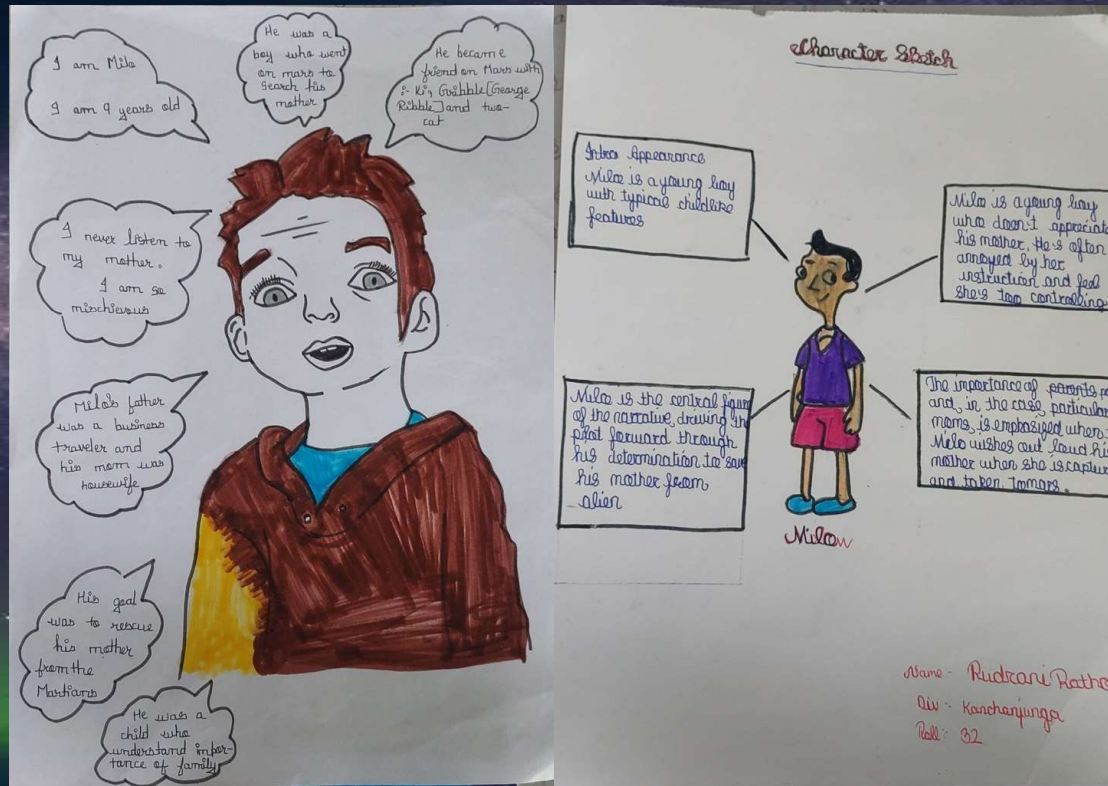
We the students of BSGM School kindly request permission to visit the B.R. Ambedkar Planetarium on 12 July 2025 as a part of our project based learning. The visit will help us learn more about astronomy and space science in an interactive and engaging way.

A group of around 120 students along with teachers will be participating. Please inform us about the entry procedures, time slots and necessary formalities.

Thanking you,

Yours faithfully,
Aniruddha Kite.

CHARACTER SKETCH



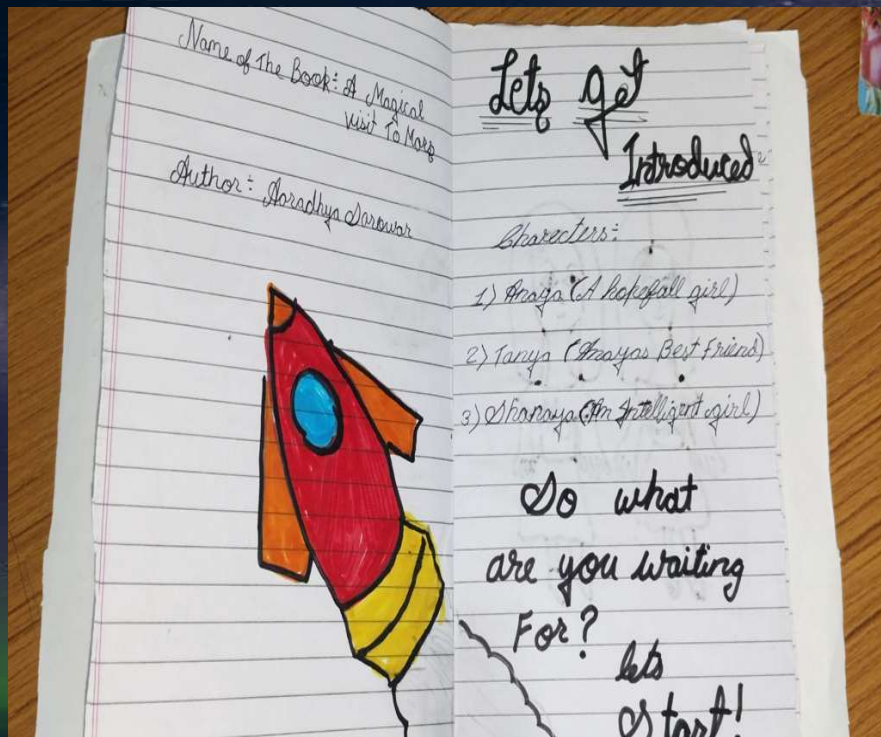


English Grammar



In grammar, we learnt

- *Proper sentence structure.*
- *Vocabulary building.*
- *Usage of adjectives, verbs, and adverbs.*
- *Paragraph writing skills.*
- *Punctuation.*
- *Subject-verb agreement.*
- *Tenses.*



मराठी कथा लेखन



कथा लेखन व कविता लेखन उद्दिष्टे

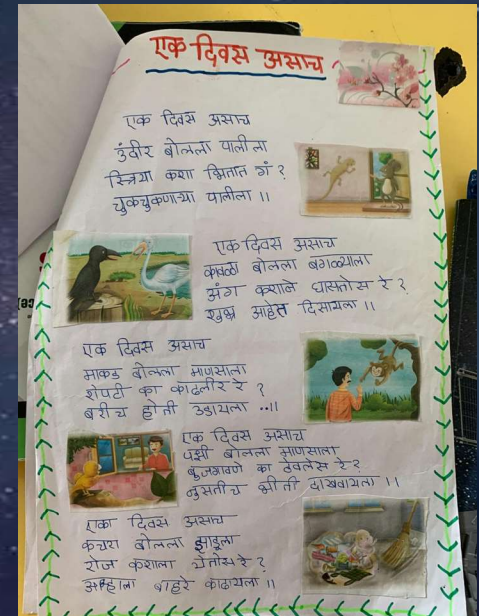
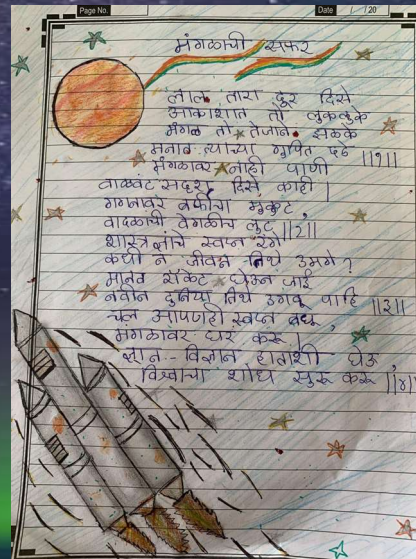
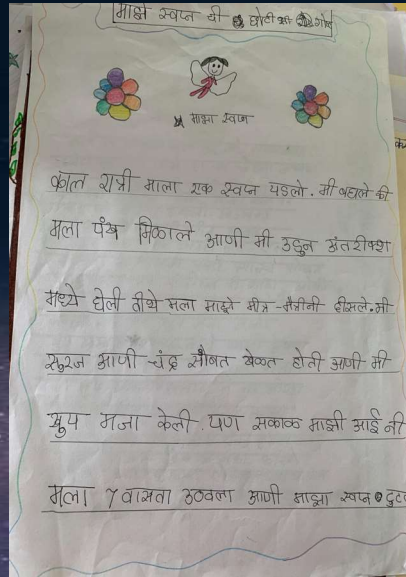
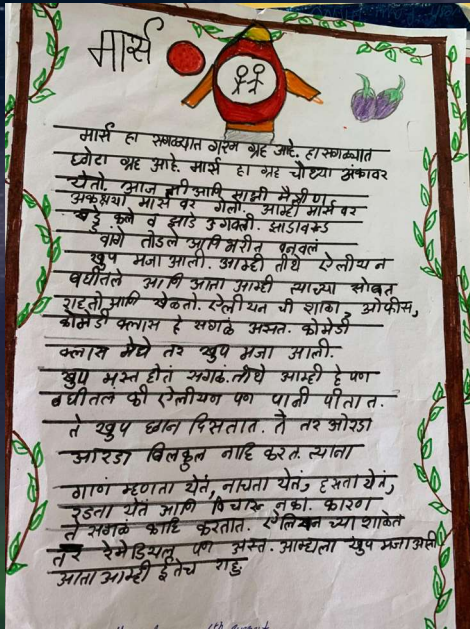
विद्यार्थी यातून कथा कशी लिहायची हे शिकतील.

कथा वास्तविक तसेच काल्पनिक लिहतील.

कविता तयार करताना करावा लागणारा विचार

त्यासाठी शब्दाची जुळवाजुळव शिकतील.

आकाशा संबंधित नवीन शब्द शिकतील.

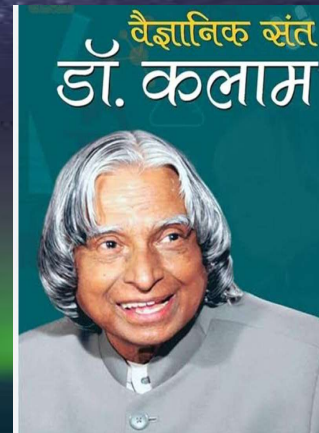




Hindi

उन्हें नमन है

कविता का उद्देश्य -
देश और मानवता के लिए समर्पित व्यक्तियों के कार्यों को
जानना ।





वैज्ञानिकों का योगदान - वैज्ञानिकों ने अपने खोजों और मेहनत से हमें आकाशगंगा, ग्रह, तारे उनकी अंतरिक्ष के बारे में हमें बहुत सारी जानकारी दी। उनकी वजह से हम आज अंतरिक्ष के रहस्यों को जान पा रहे हैं।

1. आर्यभट्ट

3. कल्पना चावला

2. न्यूटन

4. राकेश शर्मा



इस प्रकल्प अंतर्गत हमने कक्षा में स्वयं रचित कविता की गतिविधि लेकर उन कविता पर आधारित कार्यपुस्तिका कक्षा में पूर्ण की है।





Science

What did we Learn?



STARS

2.

Appearance

- Tiny-looking due to distance
- Shine from fusion

Features

- Hot gas spheres
- Vary in size, colour, and brightness

Life

- Born in nebulae
- Die as white dwarfs,

SUN

1. Nearest Star,
2. Gives Light



In science lesson, BEYOND THE EARTH

Constellations

- Star patterns (e.g., Orion)
- Used for navigation & seasons
- Help locate stars

Star Movement

Stars move east to west.
Due to Earth's rotation.

POLAR STAR FIXED FOR DIRECTION



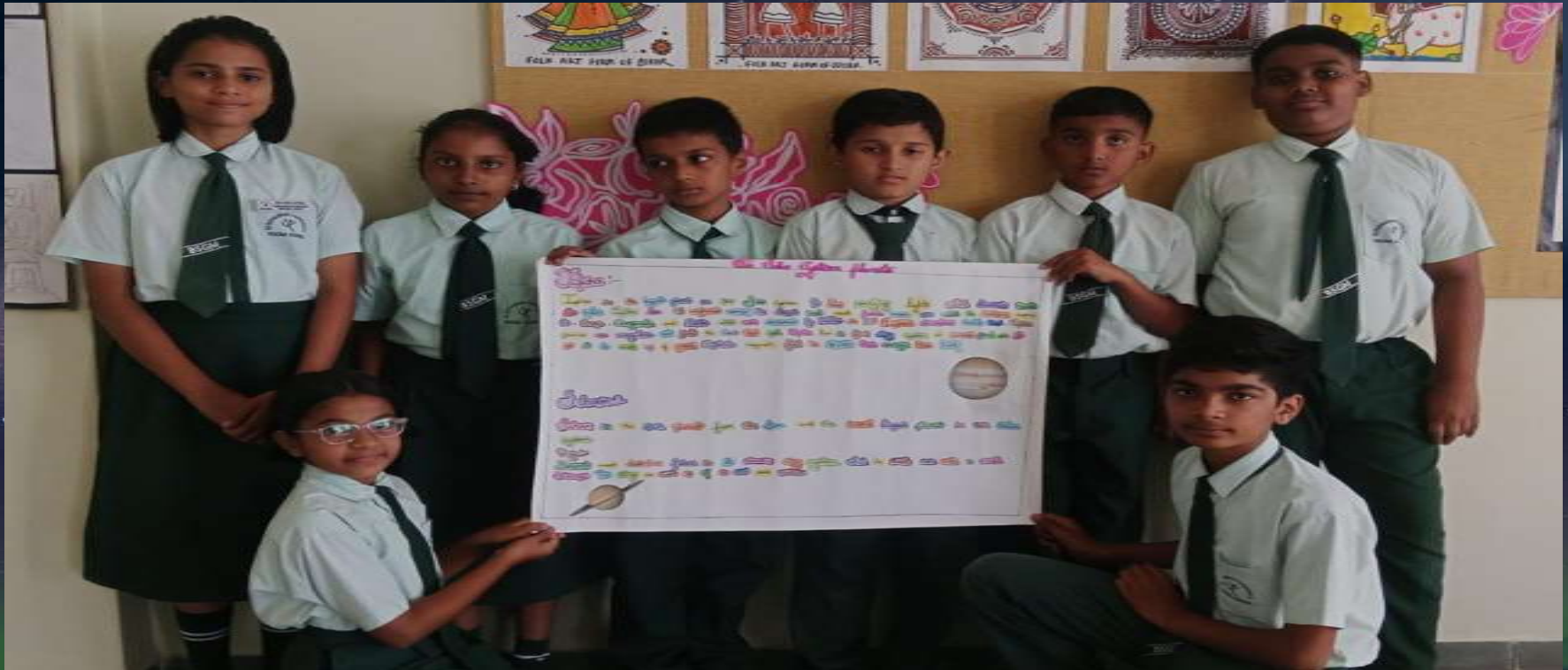
Visit to Planetarium & Science Exhibition

Watched an immersive thematic movie

**Applied observation, knowledge, creativity, and
real-world application skills**



Science Integration





In SST, The Earth in the Solar System



WHAT DID WE LEARN?

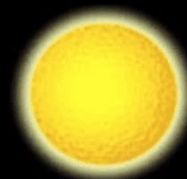
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Celestial Bodies :
Stars

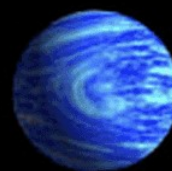
Planets

Comets

Asteroids



Stars



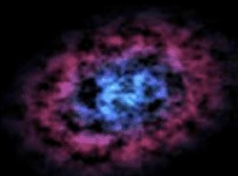
Planets



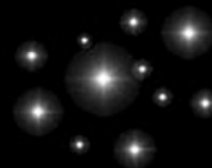
Moons



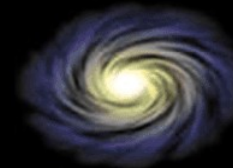
Asteroids
& Comets



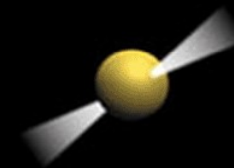
Nebulae



Star Clusters



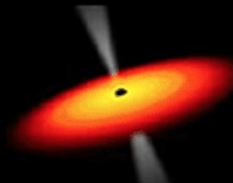
Galaxies



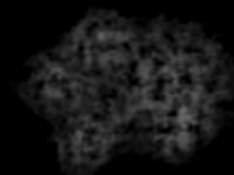
Pulsars



Quasars



Black Holes



Dark Matter





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MATHEMATICS

29



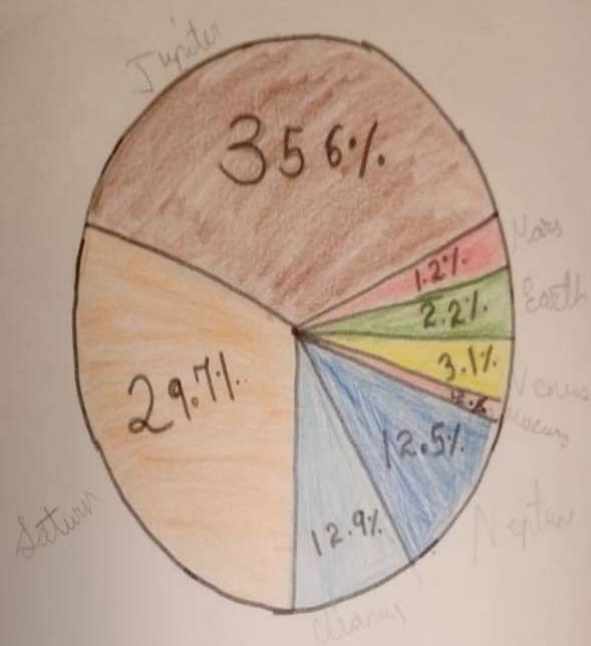


In Mathematics ,

We Integrated :

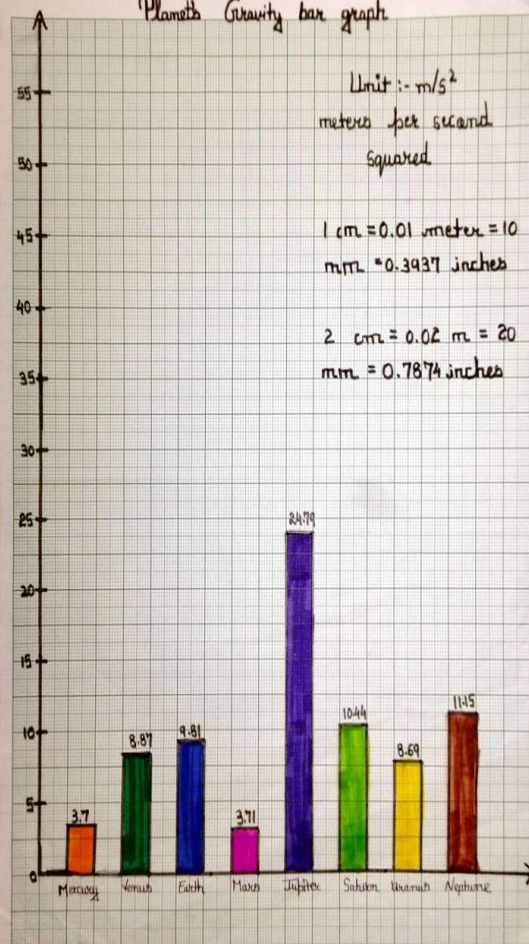
Chapter : Measuration (Area , Perimeter)

Circumference distribution of Planets



- ☐ Jupiter 35.6%
- ☐ Saturn 29.7%
- ☐ Uranus 12.9%
- ☐ Neptune 12.5%
- ☐ Mercury 1.2%
- ☐ Venus 3.1%
- ☐ Earth 2.2%
- ☐ Mars 1.2%

Planets Gravity bar graph





What did we learn in

Computer



Exploring Online Resources







Drawing Integration

- Design of Book Covers
- Space Theme Decoration For Classrooms
- A Drawing Of Solar System





End Product:



Spacecast - Students Speak, World Listens!

18



Storybooks - Students Write, World Listens!







Vote of Thanks



Spacecast is Waiting – Just Scan

