



### **Report: SPACE ASTRONOMY CLUB**

**Date: 28th April 2025**

**Organized by: SPACE CLUB**

**Venue: SEMINAR ROOM**

#### **Description:**

The Space Astronomy Club organized an exciting and educational Space Workshop for students of Classes 6 to 8, aiming to spark interest in space science through engaging, hands-on activities. The workshop offered students a unique opportunity to explore astronomical phenomena and basic principles of physics in a fun and interactive way.

#### **Highlights of the Workshop**

##### **a) Comet Making Activity:**

Students created model comets using dry ice, water, sand, and organic materials to simulate the nucleus and tail. They learned how comets behave in space and why their tails always point away from the Sun.

##### **B) Hydro-Rocket Launch:**

Using simple materials like plastic bottles and water, students designed and launched hydro-rockets, learning about thrust, pressure, and Newton's Third Law of Motion.

##### **C) Experiment on Light Emitted by Stars:**

Participants used simple prisms and diffraction gratings to observe and analyze the light spectrum emitted by various sources, simulating how scientists study starlight to understand the composition and temperature of stars.

##### **D) Interactive Presentations and Quizzes:**

The workshop included brief multimedia presentations and quizzes to reinforce the topics covered and encourage curiosity-driven learning.

#### **Learning Outcomes**

A) Conceptual Understanding: Students learned key concepts such as comet structure, propulsion, and the nature of starlight.

##### **B) Scientific Inquiry and Methodology:**

The hands-on activities encouraged students to observe, hypothesize, and draw conclusions based on their experiments.

##### **C) Application of Physics Principles:**

Through the hydro-rocket activity and light experiments, students applied basic physics concepts in a practical setting.

## Conclusion

The workshop was a resounding success, providing an enriching blend of learning and fun. Students were not only introduced to fascinating concepts in space science but were also given a platform to explore them practically. The activities stimulated curiosity and laid the foundation for scientific thinking among young learners. The enthusiasm and active participation demonstrated by the students highlight the effectiveness of experiential learning and the potential for future initiatives by the Space Astronomy Club.

## Glimpses:



