

The background of the entire page is a vibrant space-themed image. It features a deep blue and black cosmic scene with glowing green and blue nebulae and star clusters. On the left side, a large, bright orange and red celestial body, possibly a planet or a star, is partially visible. A bright blue arc, resembling a planet's horizon or a comet's tail, curves across the bottom right. The title 'ASTRONOMY DAY' is prominently displayed in the center, with the 'O' in 'ASTRONOMY' replaced by a detailed illustration of a cratered moon and the 'O' in 'DAY' replaced by a red and orange striped planet with a yellow ring. Below the title, the word 'REPORT' is centered between two horizontal white lines.

# ASTRONOMY DAY

## REPORT

BAL BHARTI PUBLIC SCHOOL

Sector - 21, Noida

January 23, 2018

# ASTRONOMY DAY

## REPORT

### ASTRONOMY DAY

ASTRONOMY DAY is the culmination of SPACE Astronomy club, where club students get a platform to showcase their learning through various activities to the school management as well as their fellow students.

While preparing for Astronomy day, students enhanced their life skills such as Management, Organization, Leadership, Scientific Temperament, Presentation, Decision Making and Logical Reasoning. The event was planned and executed by club students, with support and guidance from SPACE Educators and the school coordinator, thereby increasing their confidence and communication skills.

On January 23, 2018, SPACE club Module 1 students of Bal Bharti Public School, sector 21 Noida celebrated ASTRONOMY DAY in their school. A plethora of astronomy related activities were organized by the students.

The Astronomy day was inaugurated by the Headmistress(Senior wing) **Ms. Amita Ganjoo** with a **HYDRO-ROCKET LAUNCH** wherein the students first explained the parts of a rocket followed by the parameters that govern the flight of a rocket. The guests then launched a 2L hydro-rocket and the audience was enthralled to see the rocket fly high. Later, audience also got a chance to launch 600 ml hydro rocket during the Astronomy Day.

Other than Hydro Rocketry, students also exhibited other Astronomy club activities which are as follows:



# ASTRONOMY DAY

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# MODULE – 1

**SPACE TECHNOLOGY AND EDUCATION PRIVATE LIMITED**

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# ASTRONOMY DAY

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### MAKE YOUR OWN COMET

In this activity, SPACE club students explained about Comets and also made some with readily available household materials.

- The audience learnt about the structure, parts, residing place and orbit of a comet.
- They learnt about various missions sent to comets and their outcomes.
- The audience learnt about the composition of an actual comet and experienced the comet making activity.



*Students made comets using everyday materials*



*The students displayed their comets and explained the properties*

### RING THE PLANET

This fun activity made the participants know about the planets of our Solar System. The participants solved planet riddles and ringed the same planet.

- The activity helped the audience understand the correct definition of planets.
- The audience got to know various facts and features of planets.



*The participants aimed at different planets to win prizes*



*The participants got to know various facts about the planets*



# ASTRONOMY DAY

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### UNIVERSE IN 3D

In this activity the audience were given a chance to see 3D images of various celestial bodies using 3D view goggles. Through this activity, the students explained the dimensions introducing comparison between 2D and 3D.

- The audience understand the concept of 3D imaging in this activity.
- The audience, with this activity, realize the difference between 2D and 3D images



*The audience observed 3D images through specially designed 3D glasses*



*The audience were amazed to see the universe in 3D*

### METEOR ATTACK

In this activity, the participants were given balls representing the meteors, which were to be aimed towards the Earth being saved by a net acting as the atmosphere.

- The participants learnt that approach of space rocks to the earth depends on its size and/or on the speed/energy with which it approaches the earth.
- This activity aimed at explaining the role of atmosphere in protecting the Earth from space rocks that may be in collision path with the earth.



*Audience learnt about various kinds of Space rocks*



*Students explained the role of atmosphere in protecting the Earth from meteors*

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### TATTOO MAKING

This activity was an amalgam of astronomy and science wherein the audience got astronomy theme based tattoos made/pasted.

- The aim of the activity was to create interest in astronomy and encourage the audience to explore and learn.
- This aim was also to get the audience intrigued so that they explore the astronomy related pictures that they get exposure to.



*The guests got Astronomy theme based tattoos made*



*The tattoo making stall was a hit among the audience*

### WEIGHT ON DIFFERENT PLANETS

In this activity, different weighing scales, corresponding to some of the solar system planets, each calibrated according to the gravity on respective planets were put up for the audience to check their weight on.

- This activity made the audience understand the concept of gravity and that the force of gravity is different on different planets.
- The participants understood that mass and weight are two different entities which are often perceived to be the same.



*Audience weighed themselves on different planets*



*Audience were amazed to see their weight on different planets*

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### LUNAR CRATER MAKING

Crater making activity made the audience visualize the formation of craters on the Lunar surface; and about different features visible on the moon.

- The audience aimed marbles to the Apollo landing sites set as targets on the moon surface, thus making craters on the surface.
- The participants hence visualized and understood how impact craters are formed on the moon surface.



*Audience learned about the features of the Moon*



*Audience understood the reason behind lunar crater*

### HYDRO-ROCKETRY

In this activity, the students explained the various parts of rocket and science behind their launch while setting up the rocket for the audience and making them launch it.

- The audience got an overall knowledge about space and rockets.
- Spectators also learnt about the Newton's law of motion and its application in rocketry.
- They were also introduced to center of mass and center of pressure.
- They also learnt about the launcher and its parts.



*Ms. Amita Ganjoo(HM), Inaugurated Astronomy day with Hydro-rocket launch*



*The audience enjoyed rocket launch during Astronomy day*

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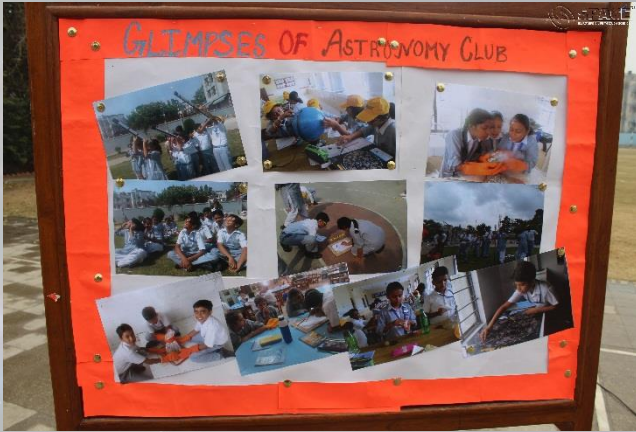


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### PHOTO EXHIBITION

The club students put up an exhibition of the photographs clicked during the sessions and hence showcased through pictures their learning in the Astronomy Club.



*Students put on display the photographs of their Astronomy Club sessions*



*Welcome board made by Space club students*

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### SPACE ASTRONOMY CLUB STUDENTS



### FEEDBACK

The event was well appreciated by the parents, students, teachers and school management. The SPACE team got amazing feedbacks. Quoting one of them here:

**"A very interactive and enriching programme. Students enjoyed a lot!" – Ms. Vaishali, School Teacher**

**Report by:**  
**Saurabh Mishra**  
**Educator | SPACE Delhi**