

THE QUIRIO

Mag

The Earth & Beyond



Volume 1 | 2022
PIS KANKAVLI

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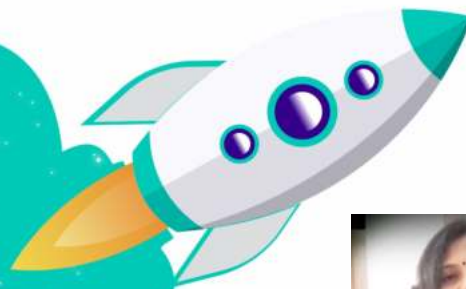
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CONTENTS



FROM THE PRINCIPAL'S DESK

At the outset, I express my gratitude to the parents who have put their faith in us to educate their children. This brings with it tremendous responsibilities and assurance to live up to your trust in us. Today, the role of a school is not only to pursue academic excellence but also to motivate and empower the students to be lifelong learners, critical thinkers, and productive members of an ever-changing global society. Converting every individual into a self-reliant and independent citizen, our school provides an amalgam of scholastic and co-scholastic activities wherein our students are achieving to the Zenith. We at Podar International School, Kankavli are happy to launch a school magazine 'The Qurio Mag', a magazine which gives opportunities to the students to showcase their creativity in the form of stories, articles, poems and so on. The theme for the 1st Volume is 'The Earth & Beyond' has given the students a chance to learn and explore 'Outer Space' in a fun and creative manner. I congratulate the entire team for their hard work and dedication in making this magazine. I am sure that the positive attitude, hard work, sustained efforts and innovative ideas exhibited by our young children will surely stir the minds of the readers and take them to the fantastic world of sheer joy and pleasure. "Education is a shared commitment between dedicated teachers, motivated students and enthusiastic parents with high expectations"

Regards,
Principal.
Mrs. Swati Kanase.

CONTENTS

1. Chronicles Of Space
2. Space Projects
3. The Universe Today – Space & Astronomy News
4. Movies And Books Recommendations
5. Movies And Books Review
6. Buzzing Poets
7. Space Exploration
8. Space Careers
9. Science Fun @ Home
10. Interstellar Art Gallery
11. Spotlight @ PIS
12. Astrosnacks
13. Brain Play

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CHRONICLES OF SPACE



Earth

In the huge space Earth is a one of the most beautiful planet. Earth is the only one on which the life exists. It is the third planet from the sun. Our earth is 4.543 billion years old. Earth contains 72% of water and 28% of land. We all live on earth. Due to oxygen on earth the life exists. When earth rotates around itself it completes 1 day and when earth completes one revolution around the sun it completes 1 year. There are 7 continents on earth. Earth is a fantastic and wonderful planet.

Now a days pollution is increasing. Global warming is occurring. We humans are only polluting our earth and because of that only we are ill many a times. So we all should come together and save our earth.

Save Earth, Save Lives

Tour to Solar System



On a peaceful and starry night while I was fast asleep I flew in my dreams with wings of imagination. As I journeyed on space shuttle and reached Neptune and asked him "Hey blue buddy, why are you too far from sun?" He was dumb and said nothing but he sent me to Uranus.

The coldest Uranus could not welcome me due to shivering sent me to gorgeous hazy yellow brown with layered frock and white spots Saturn. She was busy beautifying herself and sent me to Jupiter. Giant gas planet Jupiter was engaged with creating shades of white orange brown and red on his clock. He sent me to earth with bright smile. Impressed by glancing at earth's beauty I next set off to Venus. Oh! Venus the slow spinner was spinning slowly and didn't look at me. I ran to mercury but he strongly pushed me and I fell on the velvet grass earth. The kind earth gave me a place in her lap.

- Sara (Grade IV)

CHRONICLES OF SPACE



The Special Space

We have a big space. Do you know? There are above one trillion galaxies!

There are many galaxies like :-

- * Milky way galaxy
- * Andromeda galaxy
- * Virgo galaxy
- * Magellanic galaxy
- * Maffie I and II

And many many more. Our planet earth in galaxy Milky Way. There are total 8 planets and one sun. First there were 9 planets but in 2014. Pluto was considered Dwarf planet.

The person who studies about space is called Astronomer...

Let's see information about our planets.

Saturn has 7 large rings and is surrounded by over 1000 rings made with ice and dust. As in January 2022 Saturn has 82 moons.

Jupiter has four rings and 33 moons.

Uranus has 13 rings and 27 moons.

Neptune has 13 rings and 14 moons.

Mars has 2 moons named phobos and deimos.

Mercury is the closest planet to earth and also the smallest of all planets. It is also known to be shrinking. Mercury has the highest number of craters, the biggest one being able to western Europe and it also has wrinkles.

Lets see planet Venus now the day is longer than a year!

Despite being further away from sun than mercury venus is hotter. Unlike other planets venus spins in opposite direction of earth and other planets. At night venus is the second brightest natural object in the night sky after the moon. It is very hot and has hostile environment. Venus is also showing mysterious life signals.

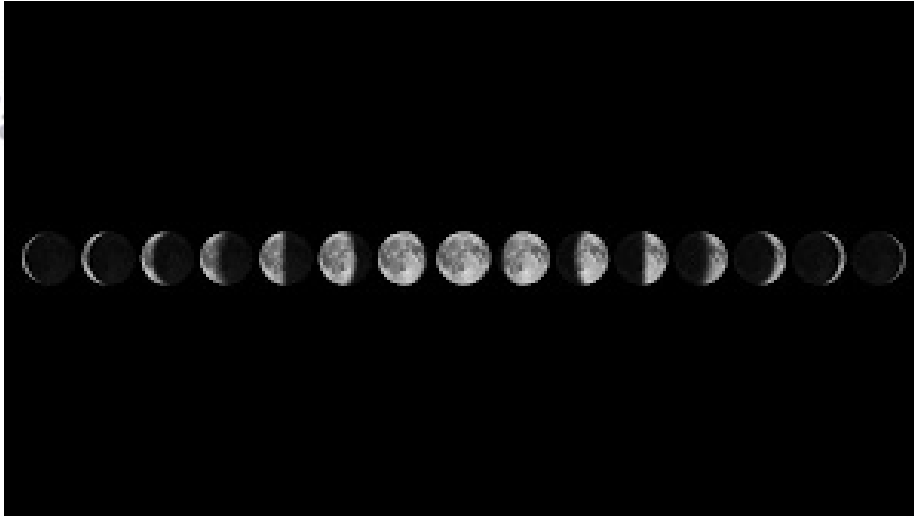
There are 4584 comets and over 150 million asteroids.

Thus, space is very very interesting and mysterious but I like my earth the most.....

My planet is Earth,
I love my planet earth
It gives us life
It is hot as well as cool alike
Earth is my motherland
And it is very very grand

- Ira Nagvekar (Grade III)

CHRONICLES OF SPACE



The Moon Factor

The moon is a planetary mass object that formed from a differentiated rocky body making it a satellite planet under the geophysical definitions of the term. The most widely accepted origin explanation posits that the moon formed 4.51 billion years ago.

The usual English proper name for Earth's natural satellite is simply Moon, with a capital 'M'. It's known that the moon formed due to a great impact between the planet and hypothesized Mars sized body called 'Theia'. It then resided to a wider orbit because of tidal interaction with the earth. Gravitational capture of a pre found moon depends on an unfeasibly extended atmosphere of the earth to dissipate the energy of the passing moon. The moons gravitational field is not uniform, but on average. Therefore, the surface gravity of the moon is about half of the surface gravity of mars and about a sixth of earth.

- **Bhargavi Dalvi (Grade VII)**

Stars

Stars are always been important for tracking time, seasons. In olden days, people used globes. Also we can't count the stars. The stars are too far from earth. The closest star near earth is sun. Stars are very hot so they give out heat and light. Star produces his own light. Also we are learning about the stars since our childhood. When stars are born they are called protostar. Stars are in black bodies. There is hydrogen gas in stars. Stars are form within the clouds or throughout most galaxies.



- **Ishwari Amberkar. (Grade VII)**

CHRONICLES OF SPACE



Theory Of General Relativity

The theory of general relativity was proposed by a well known scientist named Albert Einstein. The theory explains the behavior of matter around us. Lets do an activity to explain this theory:

Materials: Football, cricket ball, rubber stretching fabric / normal fabric, a circular container with hollow space inside.

1. Take the fabric and tie it tightly around the container.
2. Release the balls on the fabric one by one and see the bend caused by the weight of the object

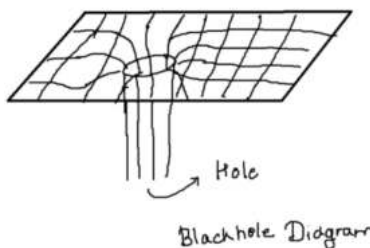
What do you see?

We see the fabric bends due to the weight of the balls. This can be referred to as the real time scenario happening in the world. The fabric we took is called space time fabric and the balls are any objects in the universe. Every object in the universe bends the fabric of space and time. Try putting an eraser on the fabric and see how much it bends the fabric. By the observation we can see that an object bends the fabric depending upon the mass

Some interesting cases:

1. Black Hole

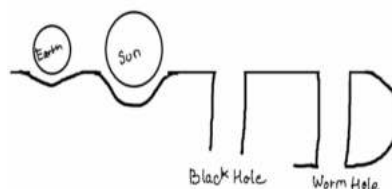
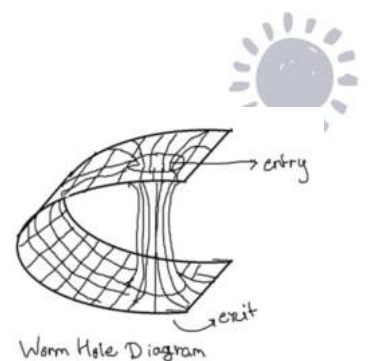
A black hole literally creates a hole in the fabric and is thus considered to have infinite mass as well as gravity.



2. Worm Hole

A worm hole is the same case but with some differences.

As we see a black hole has no exit but a worm hole connects two planes of the fabric and connects them which links two points in the universe. Unfortunately no worm holes have been found yet.



- Arya Navare. (Grade VIII)

SPACE PROJECTS

THE LANDMARK SPACE MISSIONS IN HISTORY

Earth and beyond...the space..the cosmos has always attracted humans. The mystique and mysterious space has generated much research and an overwhelming curiosity and this very thing have birth to SPACE MISSIONS. To explore the cosmos. Almost 75 years ago, we finally achieved that dream. The crews and crafts involved in these remarkable space missions made great strides in exploring our universe, and they won't be forgotten.

1957: Sputnik I - First Satellite in Space

On October 4, 1957, Sputnik I launched from the U.S.S.R. and entered Earth's orbit, becoming the first human-made object to enter space. It was the one to usher in the Space Age. it shed light on the density of Earth's atmosphere and what made a satellite successful. Sputnik I remained in orbit until January 4, 1958, when it burned up re-entering our atmosphere.



1961: Vostok I - First Man in Space

Yuri Gagarin was the first man in space on April 12, 1961, when he circled the Earth in Vostok I. The history-making voyage only lasted 108 minutes before Gagarin ejected himself from the spacecraft and parachuted back to his home planet (this was part of the plan).



1963: Vostok 6 - First Woman in Space

Valentina Tereshkova, a 26-year-old Soviet cosmonaut became the first woman to visit space on June 16, 1963. She had taken a three-day mission aboard the Vostok 6 spacecraft and completed a total of 41 orbits around Earth. She was an inspiration for generations of women astronauts for decades to come.

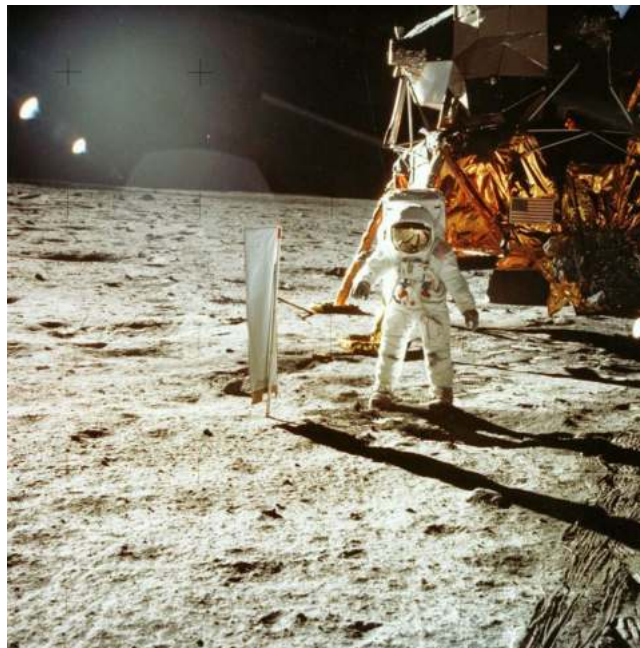


1965: Mariner 4 - First Image of Another

On July 14, 1965, Mariner 4 captured the first ever images of another planet. The spacecraft came within 6,118 miles of Mars, and revealed in stunning detail (for the first time) sunken craters, rust-colored hills and ancient carved stream beds – a signal that life might have once existed there.



SPACE PROJECTS



1969: Apollo 11 - First Man on the Moon

Neil Armstrong took & quot; one small step for a man, one giant leap for mankind & quot; on July 20, 1969, and became the first human to walk on the moon as part of the Apollo 11 mission. Less than 20 minutes later, Buzz Aldrin, who piloted the lunar module, joined his commander. The two explored the moon on foot for three hours while conducting experiments and collecting samples. Armstrong and Aldrin returned to Earth on July 24.

1970: Venera 7 - First Landing on Another Planet



The Soviet Venera missions highlighted the perils of Venus. Venera 7, the first mission to successfully land on another planet highlighted the harsh and unforgiving world next door to us. The spacecraft didn't last long on the surface – try less than an hour – but it opened the doors of great deal of data for scientists.

1970: Apollo 13 - A Daring Rescue

Just 56 hours into the mission, things took a turn. Minutes after a live television broadcast in which Jim Lovell, Jack Swigert, and Fred Haise communicated with people back home, an explosion within the craft made it clear that the crew would not be exploring the Fra Mauro area on the moon, as was initially planned.



SPACE PROJECTS

1977: Voyager 1 - Mission to Interstellar Space

Launched in 1977 along with its spacecraft sibling, Voyager 2, Voyager 1 is still going strong. Though its primary mission was to explore Jupiter and Saturn—the craft discovered volcanoes on Jupiter's moon and new details about Saturn's rings—Voyager 1 has gone above and beyond in its exploration ... literally. Not only did it snap a photo of our entire solar system in 1990, but it crossed into interstellar space in 2012, becoming the first human-made probe to do so.



1986: STS-51-L - The Challenger Disaster

The 25th mission of the United States Space Shuttle program unfortunately ended in just 73 seconds. A failed rocket booster led to the shuttle's disintegration and death of all seven crew members. The launch was scheduled to take place on the 22nd, but was repeatedly pushed back due to bad weather. The mission's goals were to have Christa McAuliffe, a teacher on board, provide lessons to



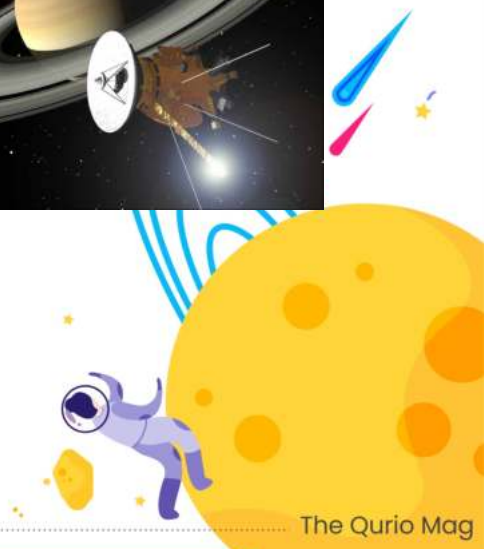
1990: Hubble Space Telescope - Spying on the Stars

The Hubble Space Telescope, the most advanced orbital observatory ever constructed at the time, launched for the cosmos on April 24, 1990. It has snapped breathtaking images of the universe's most distant galaxies, spectacular supernovae, and our planetary neighbors.



1997: Cassini-Huygens - Sailing Around Saturn

After spending an astounding 20 years in space, the Cassini spacecraft and Huygens probe ended their mission on September 15, 2017. A collaboration between NASA, the European Space Agency, and the Italian Space Agency, the craft gathered information on Jupiter during a flyby, flew between Saturn's rings, and studied its moons throughout a full seasonal period. The mission came to an end with a final entry into Saturn's atmosphere. This decision was made to protect the biological composition of the surrounding moons.



SPACE PROJECTS

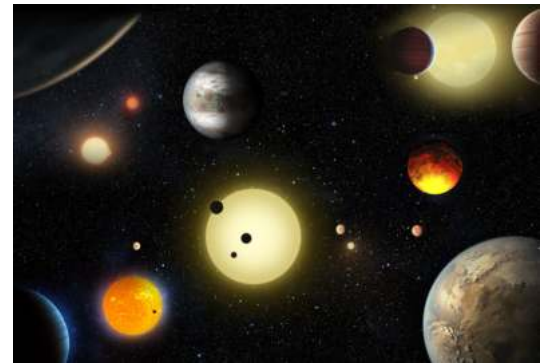
2000: The International Space Station - A Critical Laboratory

The first pieces of the International Space Station (ISS), one from Russia and the other from the United States, left Earth in the fall of 1998. The two were attached in space and added on to piece by piece until November 2, 2000, when the first crew arrived. On board the ISS, astronauts from all over the world continue to work on all sorts of experiments, including exploration of the effects microgravity has on the human body. In this test, they're the guinea pigs. The crew and politicians at home recently celebrated over 20 years of orbiting the Earth, and in 2018, legislation was approved to extend ISS operations through 2030.



2009: Kepler - Exploring Distant Worlds

On March 7, 2009, Kepler launched from Cape Canaveral, Florida. The mission was to "explore the structure and diversity of planetary systems"; While the original Kepler's run came to an end in 2013, a second, K2, picked up where its predecessor left off in 2014. By May 2016, Kepler had already identified 1,284 new planets. Of that, only nine were considered to be in a habitable zone.



2015: Falcon 9 Lands Safely

In December 2015, SpaceX successfully landed its Falcon 9 first stage back on Earth. The landing launched a new era in spaceflight, one that made the goal of reaching orbit a cheaper, sustainable effort accessible to the masses. Looking back, it's incredible to see how far the industry has come. On March 14, 2021, SpaceX launched a Falcon 9 first stage for the ninth time, setting a record that would have seemed inconceivable decades ago.



In 2021: Astronomers have discovered a rare celestial jewel

A so-called Planetary Nebula (PN) inside a 500 million-year-old Galactic Open Cluster (OC) called M37 (also known as NGC2099).

Coming Soon....

NASA's Artemis program will return humans to the Moon. The first test flight, Artemis 1, is scheduled for September 2022.

- Ishaan Nagvekar (Grade VII)



THE UNIVERSE TODAY

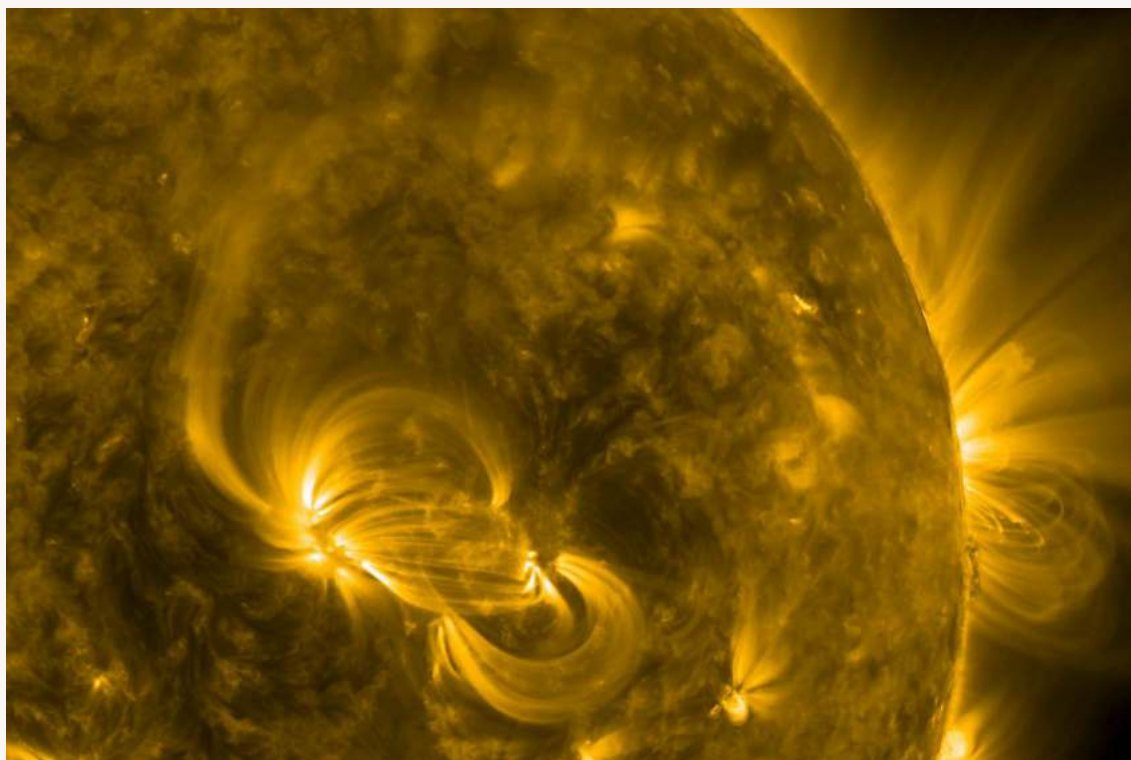
Space & Astronomy News



Solar Orbiter Captures the First Ever Image of a Magnetic Solar Switchback on the Sun

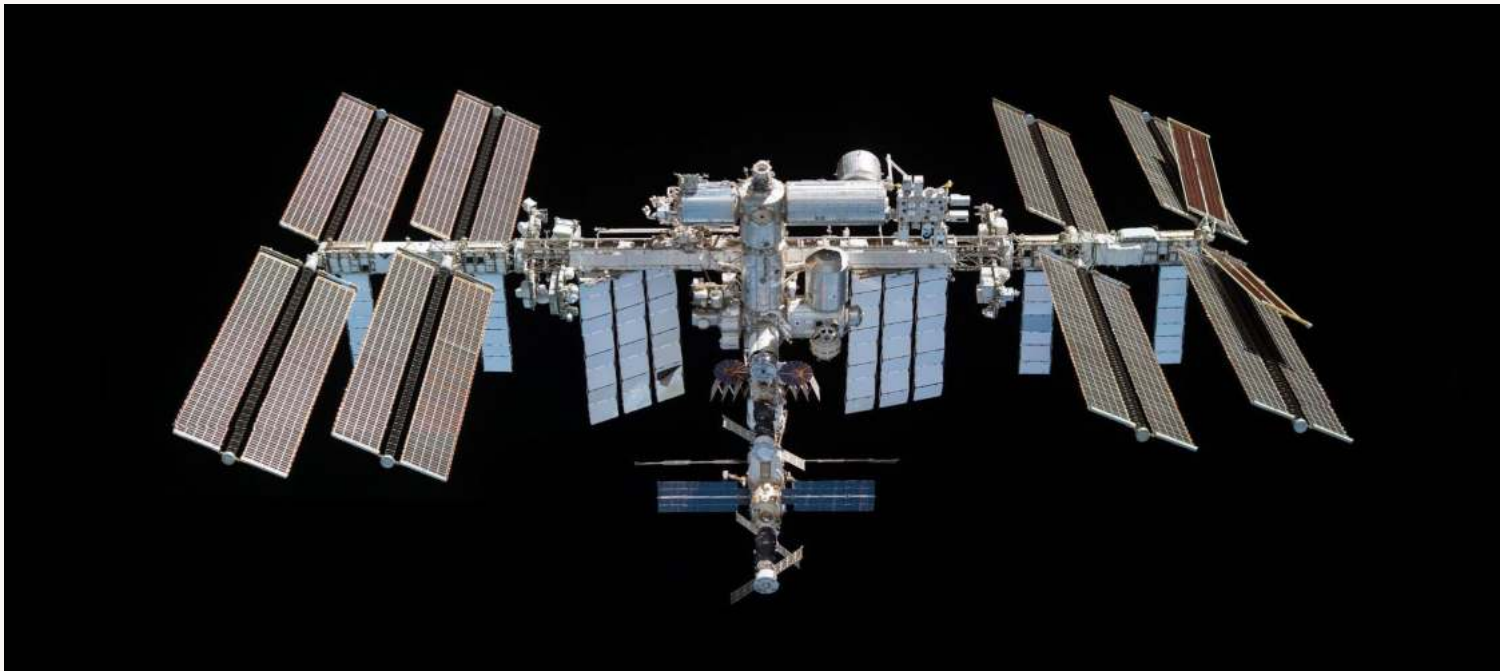
On March 25, 2022, the ESA/NASA Solar Orbiter spacecraft closed in on the Sun, getting ready to study it during a flyby. Its Metis coronagraph instrument, which blocks out the Sun so the spacecraft can study its outer atmosphere, recorded an image of something strange: a distorted, S-shaped “kink” in a small area of plasma flowing from the Sun. It was a magnetic solar switchback.

These switchbacks aren't unknown. Other spacecraft, including the Helios 1 and 2 missions in the 1970s, plus the Ulysses spacecraft in the 1990s, spotted these strange events, too. But people weren't quite sure what was causing these curious kinked switchbacks. This observation changed that. Now, thanks to the Solar Orbiter images, scientists have a better idea of what causes a switchback. The data from Metis and the spacecraft's ultraviolet instrument might also help solar physicists understand how these events affect the solar



THE UNIVERSE TODAY

Space & Astronomy News



Space Tourists Have Booked Their Next Private Mission to the International Space

In April of this year, the first all-private astronaut mission to the International Space Station was successfully conducted when Axiom Space sent four non-NASA astronauts to space during the 17-day Axiom-1 Mission (Ax-1). Based on the endeavor's success, NASA and Axiom Space have signed an agreement for the second such mission to the ISS, which will take place in the second quarter of 2023.

"With each new step forward, we are working together with commercial space companies and growing the economy in low-Earth orbit," said Phil McAlister, director of commercial space at NASA Headquarters. "In addition to expanding access to orbit for more people, we are also hoping these private astronaut missions will help the industry learn and develop the skillset to conduct such missions, and NASA is benefitting from gaining additional capability, particularly with returning additional cargo from the space station."



MOVIES AND BOOKS RECOMMENDATIONS

Movies

1. Apollo 13 (1995)

Gravity

NASA must devise a strategy to return Apollo 13 to Earth safely after the spacecraft undergoes massive internal damage putting the lives of the three astronauts on board in jeopardy.

2. The Martian (2015)

An astronaut becomes stranded on Mars after his team assumes him dead, and must rely on his ingenuity to find a way to signal to Earth that he is alive and can survive until a potential rescue.

3. Interstellar (2014)

A team of explorers travel through a wormhole in space in an attempt to ensure humanity's survival.

4. First Man (2019)

A look at the life of the astronaut, Neil Armstrong, and the legendary space mission that led him to become the first man to walk on the Moon on July 20, 1969.

5. Gravity (2013)

Two astronauts work together to survive after an accident leaves them stranded in space.

6. Fly Me To The Moon (2009)

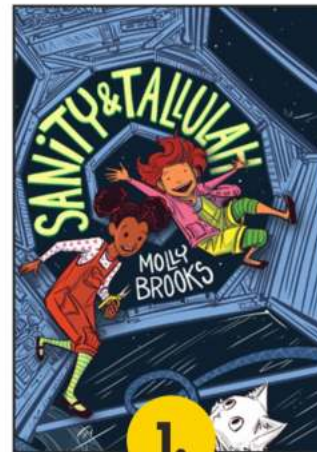
Three young house flies stowaway aboard the Apollo 11 flight to the moon.

7. Mission Mangal (2019)

Based on true events of the Indian Space Research Organisation (ISRO) successfully launching the Mars Orbiter Mission (Mangalyaan), making it the least expensive mission to Mars.

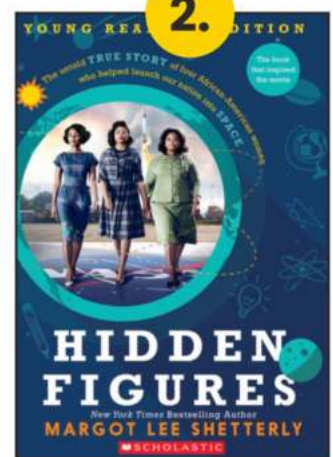


Books



Sanity & Tallulah
Molly Brooks

1.



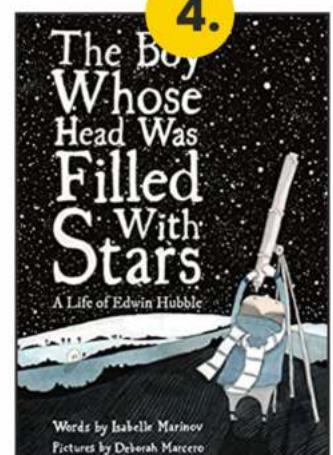
Hidden Figures
Young Readers'
Margot Lee Shetterly

2.



Galaxy Girls: 50 Amazing
Stories of Women
In Space
Libby Jackson

3.



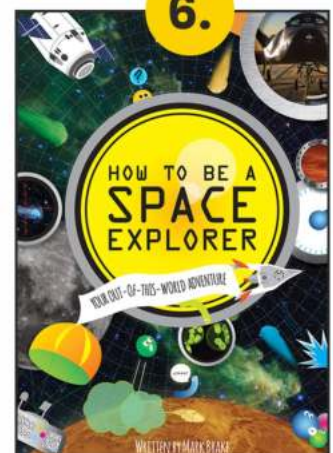
The Boy Whose Head
Was Filled with Stars:
A Life of Edwin Hubble

4.



The Kid Who Came
From Space
- Ross Welford

5.



How To Be A Spcae Explorer:
Your Out Of This World
Adventure By -
Lonely Planet Kids

6.



Review

Movies & Books

Title of the Book/Movie:

Apollo 13

Movie/Book Summary:

The film depicts astronauts Lovell, Jack Swigert, and Fred Haise aboard Apollo 13 for America's fifth crewed mission to the Moon, which was intended to be the third to land. En route, an on-board explosion deprives their spacecraft of much of its oxygen supply and electrical power, which forces NASA's flight controllers to abort the Moon landing mission and improvise scientific and mechanical solutions to get the three men home safely.



How many hearts do you give this movie?

(Draw a heart to rate - 1 heart means the movie was really bad.

5 hearts means it was great!)

Movie/Book Reviewed By: **Parna Naigaonkar** (Grade VIII)

Title of the Book/Movie:

Fly me to the moon

Movie/Book Summary:

Nat the fly loves listening to his grandfather tell stories of adventures from his youth. Desperate to experience some derring-do of his own, Nat convinces two of his friends to stow away on Apollo 11. The high-flying trios have the adventure of a lifetime when they must prevent a Russian bug from sabotaging the mission.



How many hearts do you give this movie?

(Draw a heart to rate - 1 heart means the movie was really bad.

5 hearts means it was great!)

Movie/Book Reviewed By: **Kashika Kudalkar** (Grade VII)



Review

Movies & Books

Title of the Book/Movie:

Gravity

Movie/Book Summary:

Dr. Ryan Stone is a medical engineer on her first shuttle mission. Her commander is veteran astronaut Matt Kowalsky, helming his last flight before retirement. Then, during a routine space walk by the pair, disaster strikes: The shuttle is destroyed, leaving Ryan and Matt stranded in deep space with no link to Earth and no hope of rescue. As fear turns to panic, they realize that the only way home may be to venture further into space.



How many hearts do you give this movie?

(Draw a heart to rate - 1 heart means the movie was really bad.

5 hearts means it was great!)

Movie/Book Reviewed By: **Swara Sawant** (Grade VI)

Title of the Book/Movie:

Martian (2015)

Movie/Book Summary:

When astronauts blast off from the planet Mars, they leave behind Mark Watney, presumed dead after a fierce storm. With only a meager amount of supplies, the stranded visitor must utilize his wits and spirit to find a way to survive on the hostile planet. Meanwhile, back on Earth, members of NASA and a team of international scientists work tirelessly to bring him home, while his crew mates hatch their own plan for a daring rescue mission.

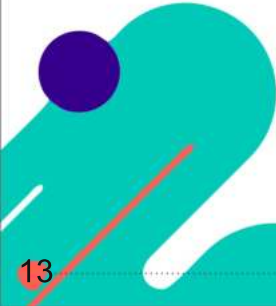


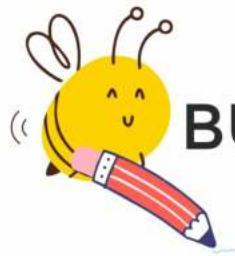
How many hearts do you give this movie?

(Draw a heart to rate - 1 heart means the movie was really bad.

5 hearts means it was great!)

Movie/Book Reviewed By: **Aarush Shetty** (Grade VII)





BUZZING POETS

Nature On Earth and Beyond

On the Earth first life is born in water,
which made many things in Nature.

Peak mountains and highest hills,
Fish take a breath through their gills.

Make the earth a paradise,
All the day Sun shine,
So that all livings are fine.

The moon is Earth's only one satellite,
That shines and lights up the night.

Mars is a dusty cold desert
In the Earth Blue river and green grass gives life.

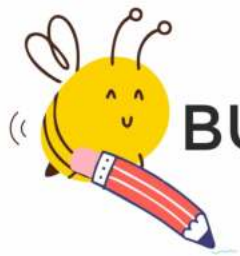
On the Earth birds can fly,
Without water fish can die.

- Drushti Sachin Sarpe (Grade VI)

Moon and Stars

Moon and Stars,
Up in the sky
The fluffy clouds
In the sky
When sun peeps
It is bright
When moon peeps
It is night
The planet of the space
Mercury and Venus
Earth, Mars , Jupiter
Saturn , Neptune and Uranus.

- Vibha Sakharam Rajam (Grade III)



BUZZING POETS

Moon

If I was a moon
I would dance whole day,
For the size of my body
Would change everyday.

If I was a moon
I would come down to South,
Little princess come soon
Let's travel to North.

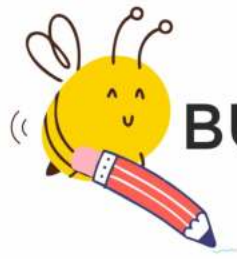
If I was a moon
Different colour I would choose,
Enjoy eating honey of spoon
And wear the matching shoes.

- Ch. Vedansi (Grade II)

Gleaming Stars

Twinkling stars shine bright in the sky
We, children glance at the night sky
Where stars wink and call to love
We, children spread our bed below
And move eyes and little fingers to count
But when we wakeup and they're not seen in
the sky
They are hidden beyond the sky
We, children wait enthusiastically for night to
see the stars

- Durva Pawar (Grade IV)



BUZZING POETS

A STAR

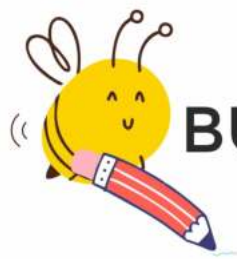
If I was a star
I would run round
And travel afar.....
To the space and the world
Pouring all my goodness & love
If I was a star
I would bring the galaxy down
Call all my friends to play
A new game whole day
And enjoy the milky way
If I was a star
I would Make all dance in the dark night
I would sing like a star
Twinkle twinkle a cute star
Let us be bright and smart
In the ship of my class

- Prem Gaurav Harne (Grade II)

Solar System

I know the planets how about you?
Let's say the names together!
Jupiter, and Saturn among the stars
Mercury, Venus, Earth and mars
Uranus, Neptune are up there too.
All Spin around in space it's true
Everything goes around the sun
Spinning spinning everyone!
The Earth is ours its number three
Its atmosphere is right for me.

- Avleen Kaur Sangha (Grade V)



BUZZING POETS

Wonder in Space

I was thinking one day
Something I should do interesting
Think in my life. So, I have an idea
"then I will visit the space.
Let's start my poem yay!
I have visited a space.
When I go to the bed
In my dream I think of Space
I have visited a space

When other nation didn't even think
You launched into the space
From a tiny space in to a great investment
Nova, places never stride planets passing
One by one made of rings and ice and
Strong doesn't earth seen very small?
Black is black but space is baluster
And I have visited the space

- **Chaitali Sawant (Grade V)**

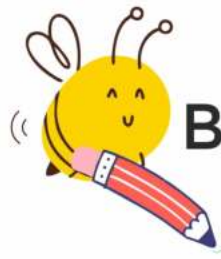
THE EARTH

Earth is the place we live,
The space is the place we see.
The Earth is where we are born,
The space is from where we see
The Earth.

Small countries lighting up ,
Bigger planets brighten up,
The people shine up,
The aliens living winding up.

Above the clouds and goes,
Till the topic multiverse rose,
The place we live is still our,
The space we see is not that far.

- **Atharva Talekar (Grade VIII)**



BUZZING POETS

In the High Sky

In the high sky, In the high sky,
There are planet and stars,
Such of Sun and Mars.

In the high sky, In the high sky,
There are galaxies Andromeda and milky way,
Ozone layer protect us from harmful rays.

In the high sky, In the high sky,
The comets are made up of rock , ice and dust,
Mercury planet is first.

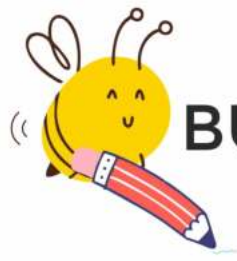
In the high sky, In the high sky,
The first rocket flew to the moon was appolla,
The king of the solar system is the sun.

- **Kavish Sawant (Grade V)**

Beyond the Earth

Take me to the stars
Where the lungs feels the dust
Sitting next to you is like
Taking a sip of eternity
Climb aboard the spaceship
Were going to the moon
Yes it's your moon
With whom you tacked the whole night
But disappeared when you fly a kite
Astronaut travels
A longway through space is just eight and half minutes
Me in the morning counting gravels
At night watching you embrace
You, the sun and the planet orbiting forever

- **Mansi Bobhate (Grade VIII)**



BUZZING POETS

Mother Earth

We have nine planets you see.....
Some are yellow, blue and green
Tucked up high in the sky
With the Sun and Stars it lie

But one unique planet we seek
That's our loving Mother Earth
It's a part of our life
And everything that lives

So that's why help our Planet grow high
Save the trees and save the sky.
And don't let our mother Mother Earth cry.

- **Madhura Gurav (Grade VII)**



Satellite Launch Vehicle (SLV III)

“The year was 1979. Dr. APJ Abdul Kalam was the project director and his mission was to put satellite in the orbit. Thousands of people worked nearly ten years. He had reached Srihari Kota and SLV III was in launch pad. The countdown was going on 4 minutes, 3 minutes, 2 minutes, 1 minutes, 40 seconds. And there was problem Dr. APJ Abdul Kalam asked to put it on hold and said don't launch it. He decided to bypass the computer and launched the rocket. And failure occurred instead of putting the satellite in orbit, it put into the Bay of Bengal.

Then former president Dr. APJ Abdul Kalam said heart touching words on how to manage failure and they were “When failure occurred, the leader of the organization owned that failure. When success come, he gave it to his team”. He took the whole blame on himself despite criticism and assured them that next year he would succeed because his team was a very good one.

Next year, on July 18 1980 the same team led by Dr. Dr. APJ Abdul Kalam successfully launched. Rohini RS -1 into the orbit. He conducted press conference on that same day and said that he would earn this success because his team was excellent and mentioned that best management lesson he had learned did not come to him from reading a book it came from that (SLV-3) experience.



- Shreya Rajesh Jagtap. (Grade VI)





Reaching for the Stars

If you're among those who dream of making their mark in the field of space, you're in luck. Space exploration and related careers is an ever-expanding area with great potential for numerous future career specializations. If your answer is yes there are many careers that you can opt to be a part of space such as:

- Astronauts
- Space Technology
- Engineering
- Space Researchers/ Scientists (Astrophysicists, Biologists, Biochemists, Biophysicist, Geoscientists, Astrobiologists)
- Space Law
- Space Tourism
- Space Architecture
- Space Medicine/Psychology



Which are the top Space Science colleges in India?

- Indian Institutes of Technology (IITs)
- Indian Institute of Science, Bangalore
- Indian Institute of Science Education and Research (IISER-TVM)
- Indian Institute of Space Science and Technology, Kerala
- Centre for Earth and Space Sciences, (University of Hyderabad)
- Aryabhata Research Institute of Observational Sciences, Nainital
- Indian Institute of Astrophysics, Bangalore
- Inter-University Centre for Astronomy and Astrophysics, Pune
- National Centre for Radio Astronomy, Pune



What are the courses you can opt for in Space Science after 12th?

- B.Tech in Aerospace Engineering B.Tech in Avionics Engineering
- B.Tech+M.S./M.Tech (B.Tech. in Engineering Physics + M.S. in Solid State Physics, Astronomy, Earth System Science / M.Tech. in Optical Engineering)
- M.Tech in Electronics, Electrical, Mechanical and Computer Science
- PhD in relevant disciplines.



SCIENCE FUN

— @Home —

Let's make a Hovercraft



Materials:

- An old CD
- HOT GLUE gun/fevikwik
- Thumbtack/ pin
- Bottle cap
- Balloon

Steps to make a Hovercraft :

- Make holes in the plastic bottle top.
- Use a hot glue gun/fevikwik and fix the bottle top over the hole of the CD. *(Please Note: Students can take help of adults while handling the fevikwik and pins.)*
- Blow up the balloon.
- Twist the neck of the balloon to keep it inflated and pull the lip of the balloon over the edges of the bottle cap.
- Let it Go – Set on a flat surface like a counter top or floor. Release the balloon and watch it glide along without any effort just over the surface.



ASTRO SNACKS



FRUIT ROCKETS

All you need to make these easy-to-assemble Fruit Rockets are:

- watermelon
- banana
- kiwi
- strawberries
- cantaloupe
- skewers

FUN FACT

Some foods like bread, fruits and nuts stay the same in space. Other foods have to be vacuum packed to keep their shape and save space.

All you need to make these easy-to-assemble Martian snackers are:

- Monaco biscuits
- Cherry tomatoes
- Cucumber
- Cheese
- Mayonnaise or Tomato sauce

MARTIAN SNACKERS



INTERSTELLER ART GALLERY



- **Tanishka Jadhav** (Grade IV)



– Piyush Sonawane (Grade VII)



- Devarya Musale (Grade II)



- **Shrijit Nigare** (Grade II)



Unniverse Before



Unniverse After

– Swanandi Ghatkar (Grade III)

SPOTLIGHT @ PIS

ACHIEVEMENTS



Podar International School Kankavli is awarded Rank **#1** as 'Co-ed Day School' in the '**Education World India School Ranking**'.



'Swachh Vidyalaya Puraskar'
on the Occasion of
'Azadi ka Amrit Mahotsav'.

Master. Ishaan Nagvekar :-

Bagged **1st** prize in an **Elocution contest 2022** on the topic **Asteroids** which was organized by **Nehru Science Centre, Mumbai**.





SPOTLIGHT @ PIS

Achievement in Olympiad 2021-22



1. Kunal Gaundalkar :-

IGKO :- International Rank 1, Gold medal with Gift Voucher of Rs 1000/-

IEO :- International Rank 1, Gold medal with Gift Voucher of Rs 1000/-

IMO :- International Rank 2, Silver medal with Gift Voucher of Rs 1000/-

ISSO :- International Rank 2, Silver medal with Gift Voucher of Rs 1000/-

NSO :- Zonal Rank 3, Bronze medal with Gift Voucher of Rs 1000/-

NCO :- Zonal Rank 3, Bronze medal with Gift Voucher of Rs 1000/-

2. Vaishnavan Rane:-

NSO :- International Rank 1, Gold medal with Gift Voucher of Rs 1000/-

IMO :- International Rank 2, Silver medal with Gift Voucher of Rs 1000/-

7. Laukik Kadu:-

IMO and NSO :- Zonal Medal of Distinction with Gift Voucher of Rs 500/-

3. Kavya Gaundalkar :-

IEO :- International Rank 1, Gold medal with Gift Voucher of Rs 1000/-

NCO :- Zonal Rank 3, Bronze medal with Gift Voucher of Rs 1000/-

ISSO and IGKO :- Zonal Medal of Distinction of Rs 500/-

4. Ishaan Nagvekar :-

IGKO :- Zonal Rank 3, Bronze medal with Gift Voucher of Rs 1000/-

IMO and NSO :- Zonal Medal of Distinction of Rs 500/-

5. Ira Nagvekar :-

IGKO :- Zonal Rank 3, Bronze medal with Gift Voucher of Rs 1000/-

6. Vaikhari Sawant :-

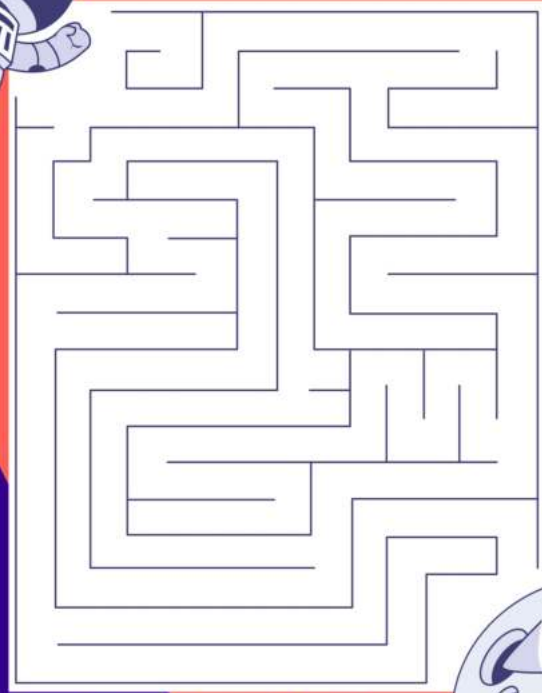
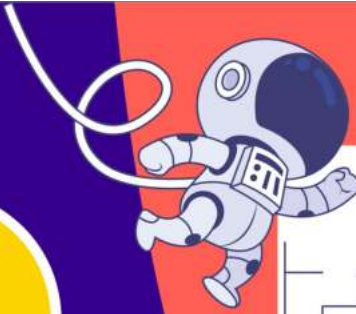
NSO :- Zonal Medal of Distinction with Gift Voucher of Rs 500/-



CELEBRATIONS & ACTIVITIES



HELP THE ASTRONAUT



GET BACK TO HIS SHIP



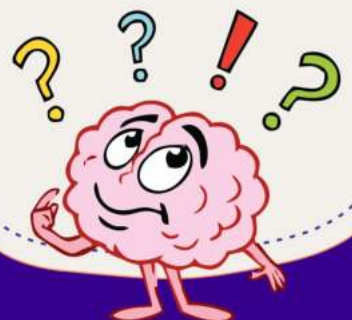
SPACE PUZZLE

Complete the word search

Y	W	A	Z	X	H	D	G	U	F	O
X	E	G	S	T	A	R	J	Z	W	Y
A	A	Y	T	A	G	M	A	B	R	Y
S	R	H	Y	P	Y	G	Y	S	U	N
T	T	B	U	L	P	K	M	L	G	Z
R	H	D	Y	A	L	I	E	N	X	R
O	M	O	O	N	H	B	V	U	T	O
N	X	U	V	E	W	N	Z	P	J	C
A	R	H	J	T	X	R	G	X	J	K
U	N	T	E	L	E	S	C	O	P	E
T	O	G	T	W	X	Y	E	H	D	T

What Am I?

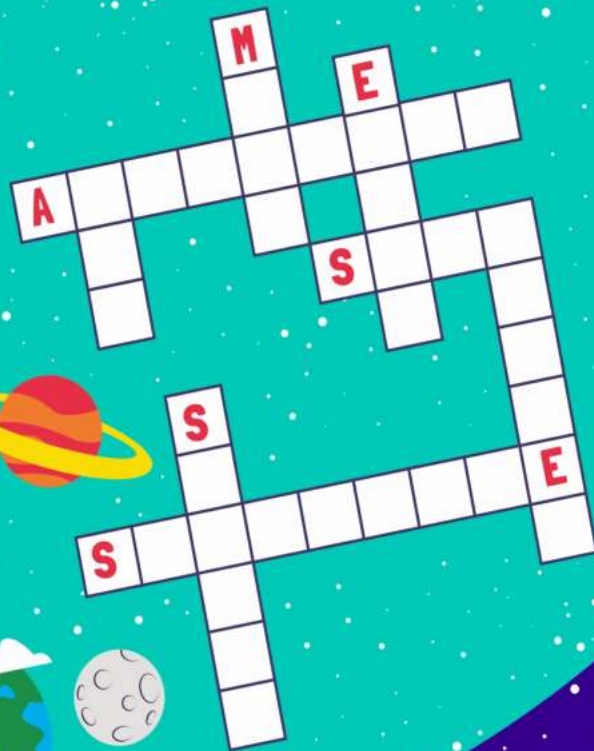
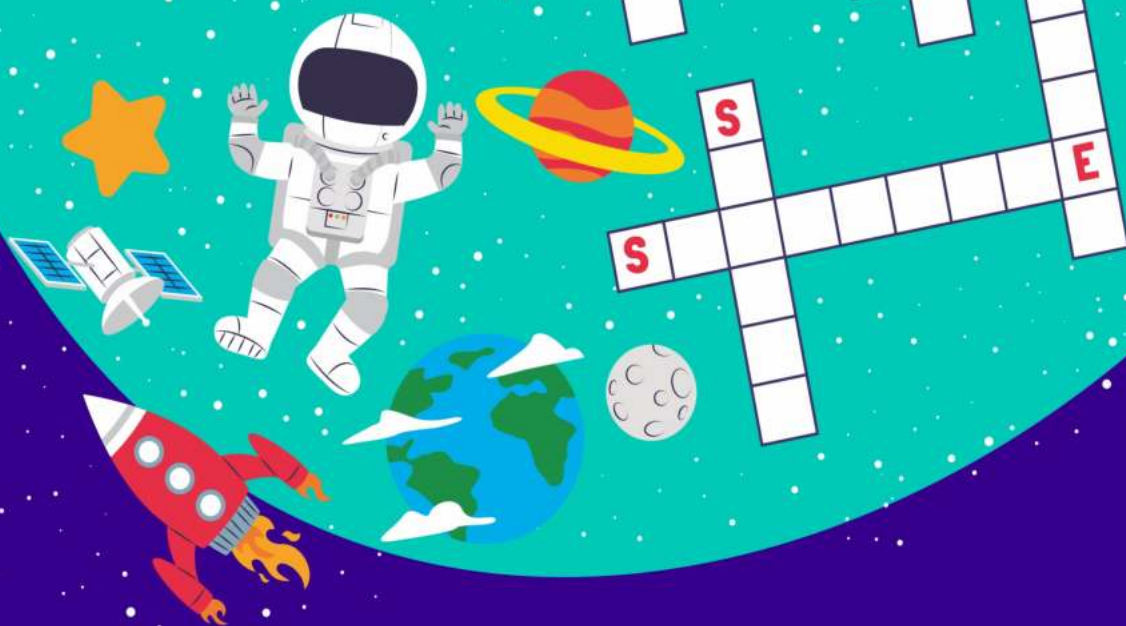
I can be looked through but
I'm not a window,
I have your eye pressed to me
but I'm not a door peephole,
I'm often placed on a tripod
but I'm not a camera,
I help you see things that are
far away but I'm not a pair of
binoculars,
I'm often pointed at the sky
but I'm not a satellite dish!



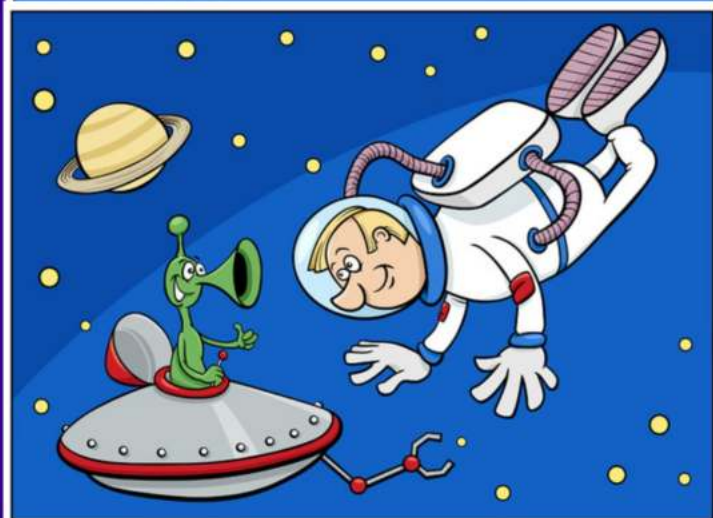
STAR UFO SUN ROCKET ALIEN PLANET ASTRONAUT TELESCOPE MOON EARTH



CROSSWORD



Find 6 differences



Using just the letters in the word below, can you make atleast 12 new words?

RULES: You may only use a letter as many times as it is shown in the key word. Each word must be atleast 4 letters long.

GOOD LUCK!

ASTEROID

Riddle

I am bigger than Venus
but smaller than Uranus.
I am a living rock.
What am I??



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Tal - Kankavli, Dist- Sindhudurg.
Maharashtra 416602