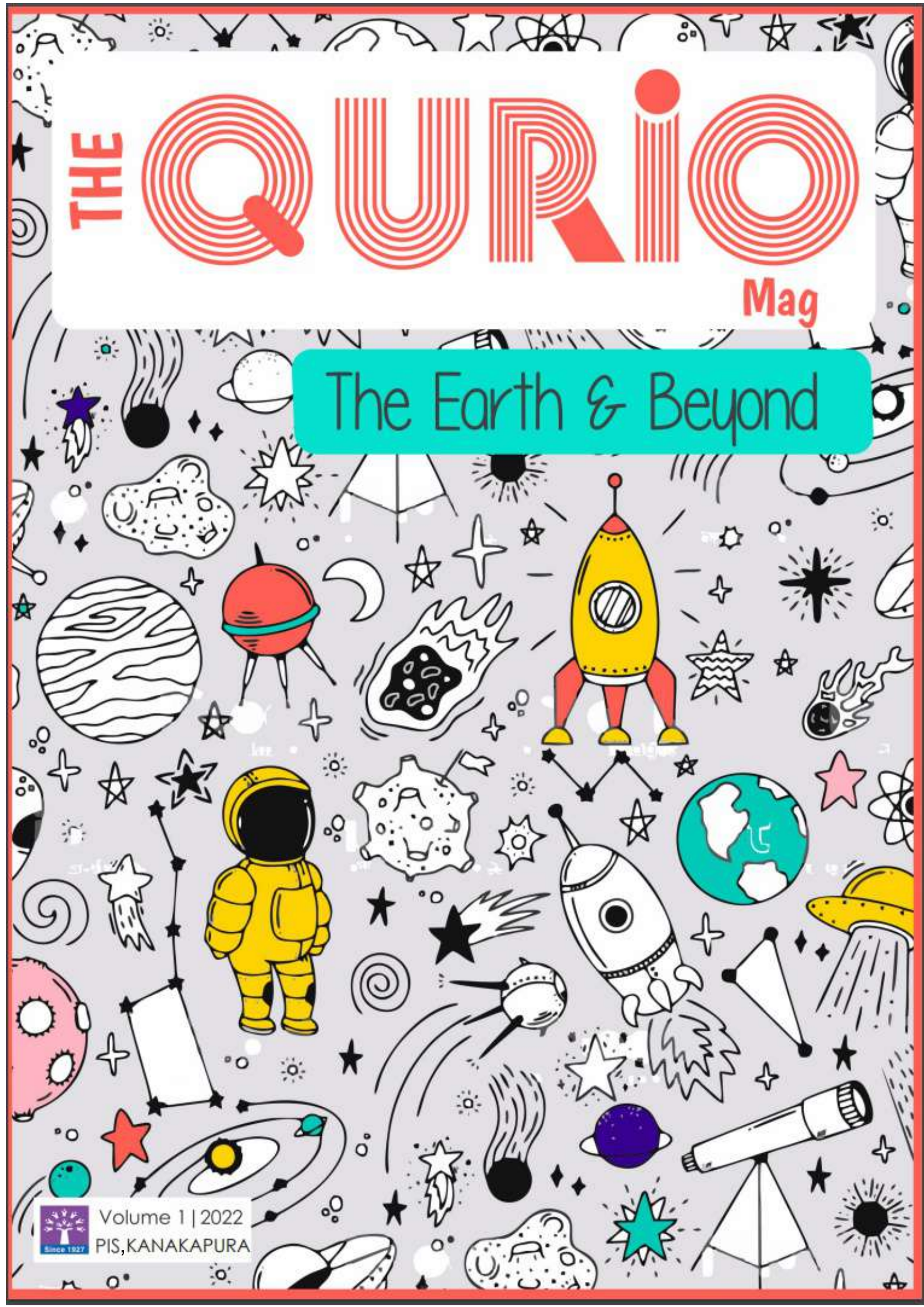


THE QURRIO

Mag

The Earth & Beyond



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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 I assure you that we are doing our best 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 everchanging global society. Converting every individual into a self-reliant and independent citizen, our school provides an amalgam of scholastic and co-scholastic activities. We at Podar International School are happy to launch a school magazine 'The Curio Mag', a magazine which gives opportunities to the students to showcase their creativity in the form of stories, articles, poems, anecdotes 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 to 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 Dr Shanmukh S



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CHRONICLES OF SPACE



OPERATION LIFE

Once upon a time, there was a planet named AV-15. There is a family of twins who were born. The speciality of this planet was, that the inhabitants had hidden powers which could be developed by training.

When the kids grew to about 5 months the neighbouring planet, AV-16, attacked the planet AV-15 and destroyed it. Somehow the twins were sent into space through a rocket.

After, travelling a month in space the twins reached a planet named Earth. The rocket landed in the city of Mumbai, India in the year 1990. On that day Jaydev Thakur discovered the twins. He didn't see the spaceship as it was invisible. The man had no child. Therefore, he told his wife that God has blessed them with these two children.

Jaydev Thakur named these children Ajay and Vijay.

A few years later, when the kids grew up, they started attending school. They had a very strong bond with each other and always supported each other.

While the children were enjoying their life, the troops of the planet AV-16 were searching for them throughout the universe by tracking their supernatural energy. Both brothers had a lot of interest in science, especially space. Then one day as the troops of planet AV-16 were searching the children, the tracker suddenly started to beep. It was showing the location of Earth. So, they attacked Ajay and Vijay's house, but quite luckily the whole family was doing a drill in their anti-missile bunker so they survived.

Continued in next page.....



CHRONICLES OF SPACE

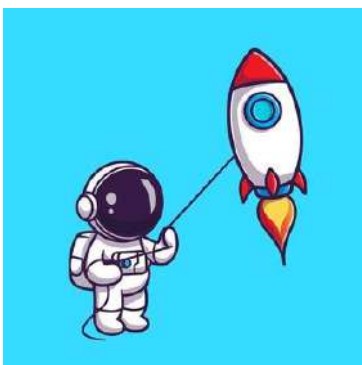


Jaydev understood that there is something unusual. The children rushed out to see what has happened. They somehow saw the uniform of the troops of planet AV-16 and suddenly a memory flashed in front of their eyes and they recalled that they are from a different planet which was destroyed long ago.

Then the commander of the spacecraft saw the position of the twins and started firing at the bushes, due to which Ajay got two bullets in his chest but Vijay somehow escaped. He ran away and hid in a bunker under the water.

The trackers failed to detect his position and assumed that he was dead. Then Vijay called his parents to that place and told them the whole story. After staying a few months under water Vijay decided to avenge his brother's death. Therefore, he started studying hard to become an Engineer.

After working hard for years he finally became a space engineer and innovator. He further dreamt of inventing a state-of-the-art battle craft that could fight in space. After creating such a rocket, he trained himself to operate it. He also formed a crew that was ready to fight for him with those fierce extraterrestrials



-By : Karan Goel
Grade : '8'

SPACE PROJECTS

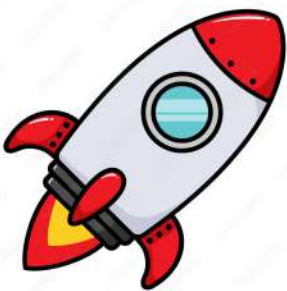


The Indian Space Research Organisation is the national space agency of India, headquartered in Bangaluru. ISRO is India's primary agency for performing tasks related to space-based applications, space exploration, and the development of related technologies. ISRO was formed in 1969 with a vision to develop and harness space technology in national development while pursuing planetary exploration and space science research. ISRO replaced its predecessor, INCOSPAR (Indian National Committee for Space Research), established in 1962 by India's first Prime Minister Pt.

The Indian Space Research Organisation has carried out 114 spacecraft missions, and 83 launch missions and planned several missions including the Aditya, Gaganyaan, and MOM 2 design, and the development of launch vehicles and related technologies for providing access to space. Design and development of satellites and related technologies for earth observation, communication, navigation, meteorology, and space science Shri S. Somanath assumed the charge of Secretary, Department of Space and Chairman, Space Commission on 14 January 2022. In his previous assignment, he was Director, of Vikram Sarabhai Space Centre (VSSC), the lead Centre responsible for Launch vehicle technology development.

Three of the most important upcoming space missions by ISRO – Gaganyaan, Aditya-L1, and Chandrayaan-3, are scheduled for 2023.

-By Sneha
Grade: '8'



THE UNIVERSE TODAY

Space & Astronomy News



SPACE PROJECT

1) The Biggest Discovery in Space: Hubble confirms Comet as the Biggest record. The Hubble Space Telescope determined a recently discovered comet has a nucleus discovered spanning 85 miles, making it the largest space snowball ever observed.

This took place on 18-June-2022

18-June 2012.

2) A New Planet Invented : Astronomers found a new planet that's mostly made of iron. NASA's Satellite found planet LP 390-9b which is about 30% larger than the Earth. It orbits around the sun in just 2.7 days. It was found on

7-September 2022.

3) Planets Discovered in 2022 :

There are 19 new planets discovered in 2022, the longest period TESS planet found to date, and a new Kepler planet that may have its own moon! which has been discovered by citizen scientists, TOI-21806 is a TESS giant with a 261 day orbit.

The 19 new planets are:

- 1) Kepler-1972 b&c
- 2) TOI 1268 b
- 3) TOI 2337 b
- 4) TOI 4329 b
- 5) TOI 26696 b
- 6) TOI 2066 b
- 7) TOI 500 b
- 8) TOI 544 b
- 9) TOI 833b
- 10) TOI 1075 b
- 11) TOI 1411 b
- 12) TOI 1442 b
- 13) TOI 1693 b
- 14) TOI 1860 b
- 15) TOI 2260 b
- 16) TOI 2411 b
- 17) TOI 2427 b
- 18) TOI 2445 b



-by: Dhanya H R
Grade: '6' A

Title of the Book/Movie: Martin

Movie/Book Summary: Movie Review

Back on earth, NASA too reports about Watney's death and declares that the mission was aborted. Shocked to know later that he's alive, they contemplate a rescue plan but as Watney puts it, 'Space does not cooperate'. Does he make it? The Martian is an extraordinary tale of Watney's extreme optimism, courage, determination and most importantly, ingenuity. Of course there are creative liberties but based on Andy Weir's novel, the film is a fictional tale that's fascinating and plausible. From Watney trying to grow potatoes and make water on Martian soil to fixing his blown up HAB (Habitation Module) by a plastic tarp and duct tape, or wandering around the Martian surface and establishing contact with folks back home- - a brilliantly witty Matt Damon drags you along with him, to his hostile world of loneliness and uncertainty. His one-liners and crackling self talk saves the film from turning sluggish and generic in portions. While The Martian is not an edge-of-the-seat thriller like Gravity, it is gripping nonetheless and strikes an enjoyable balance between entertainment and science. Scott's understated drama inspires you to solve your problems instead of mulling over them.

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: Jnanesh K V
Grade: '8'A

Title of the Book/Movie: Discovering Space

Movie/Book Summary:

This book includes the most recent developments in upto-date introduction to the mysteries of our Universe. We can learn the secrets and discover how our understanding of space has changed over time, from the earliest myths and superstitions to our latest knowledge based on exploration and scientific discovery.

This book contains an in-depth guide to various space mission highlights and exploration timelines. There are vivid illustrations of the latest technology which can help us and understand the past and possible future explorations.

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: 

Shivamsh V Relekar
Grade: '8' A

MOVIES AND BOOKS RECOMMENDATIONS

Movies

1. Apollo 13 (1995)

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.

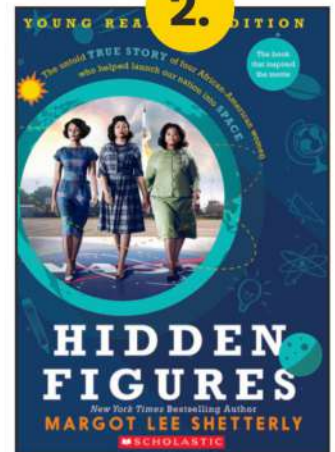


MATT DAMON
THE MARTIAN

Books



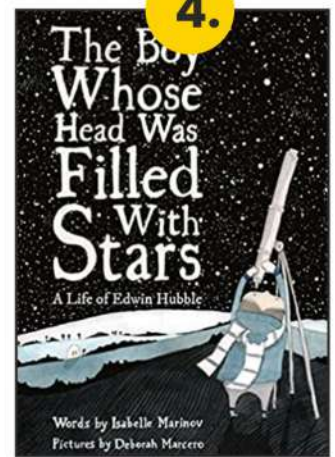
Sanity & Tallulah
Molly Brooks



Hidden Figures
Young Readers'
Margot Lee Shetterly



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



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



The Kid Who Came
From Space
- Ross Welford



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



BUZZING POETS

School Of Solar



Each planet is a student
Sun their prudent
He takes their roll call
They must obey the rules all.



To begin with the Mercury
Starts the class with luxury
Next Comes the Venus
Without the feeling minus.



Quoths he hey Earth!
Give every creature a birth
Then calls the Mars
Names after the Roman god of wars.



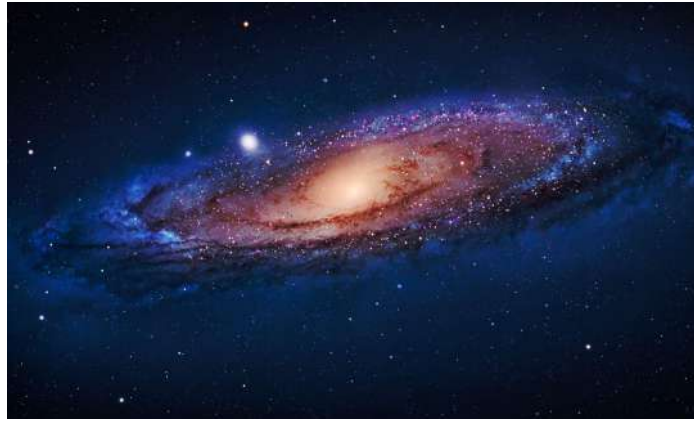
Now the time of the Jupiter
Who has the magnetic field strong
At Stath Comes the Saturn
With his Own pattern.



The father of Cronus
Comes the Uranus with radious
The most distant Neptune
Never Forgets to be cool Soon



-by : Deeksha M Bai
Grade '7' 'A'




Space travel is a scientific adventure it enables people to know more than normal. Space travel is study of space and the universe

There are lots of things in the universe that we do not know. The astronauts travel to space and give us information about it. We read in the geography books about space travel. We only know the sun and moon because we can see them in sky." But there are many planets. Stars, constellation, and galaxies in the universe. Space travelling helps people to learn about them. Today the world hear many projects that go space and bring Knowledge of unseen details of the universe etc....

-By : Yashaswini K.R
Grade : '7' 'B'



SPACE



Exploration



Giving Birth in Space: ISRO

ISRO(Indian Space Research Organization) was formed in 1969 with a vision to develop and harness space technology in national development while pursuing planetary exploration and space Science research Astronauts are trained individuals at the height of human fitness, backed up by a lot of research and experience to guide them, but a human infant has none of those qualifications, making it more difficult to survive. Even if it survives, it's highly improbable that it would be a healthy individual. So conceiving a baby in space is more difficult than you might think. Firstly individuals cannot survive in the absence of gravity which makes it very uncomfortable, and even if there is successful implantation the problems don't end Secondly, human sperm cells need gravity for migration to the egg. Which makes it even to be fertilized in space.

Thirdly, assuming that fertilization is successful, it is more difficult for the embryo to mature into a baby without the proper flow of fluids from the mother's body to the embryo.

After birth, the individuals born there would develop bloated bodies and puffy faces. Since the heart doesn't have to work against gravity in space, it would atrophy and we would lose blood content, making us pales and weaker, this would be especially uncomfortable when they do come back to Earth.

So, as the main purpose of ISRO is to develop space technology they can come up with a solution so that, it can make babies born in space easily and survive both on earth as well as in space so that when they become astronauts they can easily survive in space.

Gowri Gowda.P
Grade: '8'





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/feviquick 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



INTERSTELLAR ART GALLERY



Milky Way Galaxy

The milky way galaxy is a that includes our solar system. years old. It is also known as Akash ganga. It is about 13.61 billion Our galaxy not only consists of solar system it also consists of Asteoroids, Meteoroids, commets, billions of stars etc. There are around 50 galaxies in Milky way.

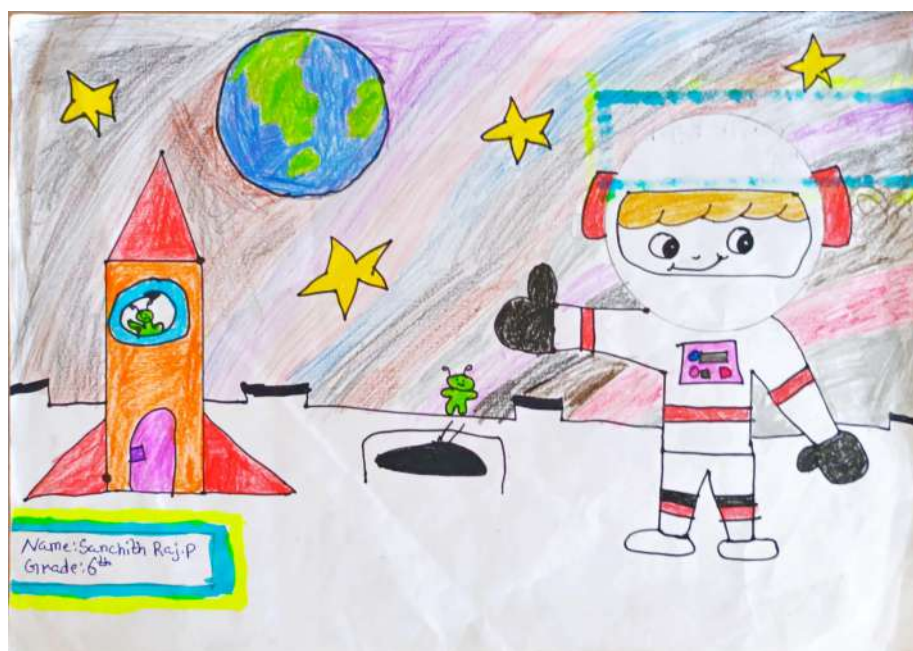
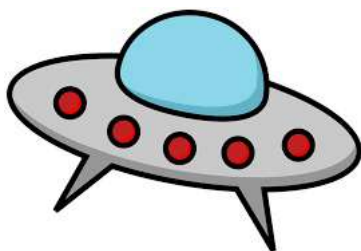
The milky way galaxy gets its name from a Greek myth about the goddess Hera who sprayed milk across the sky. It is known by different names from different places of the world such as, in china in china it is called as the "silver river", and in the Kalahari Desert in southern Africa, it is called as "Backbone of night"

-By : Kiraanmayi
Grade : '6'

INTERSTELLER ART GALLERY

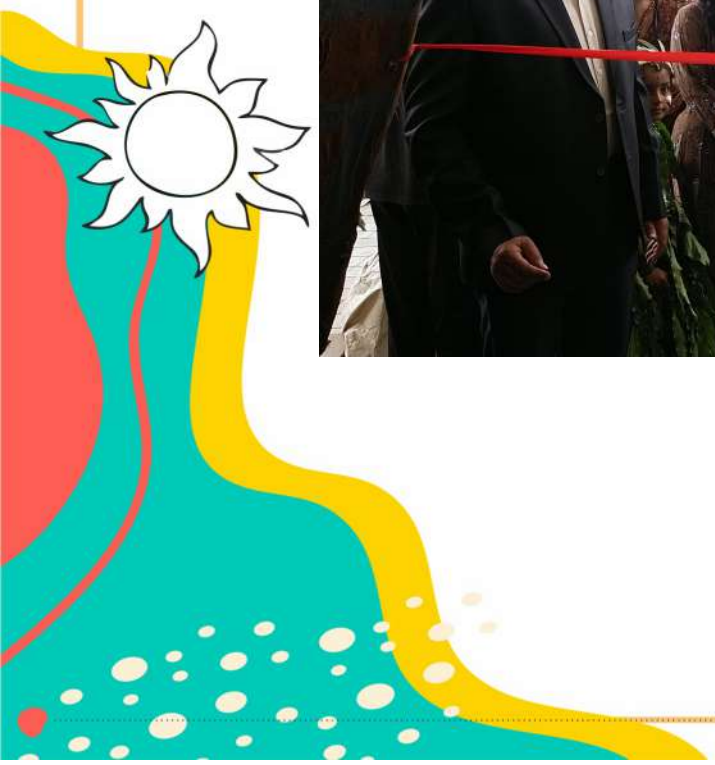


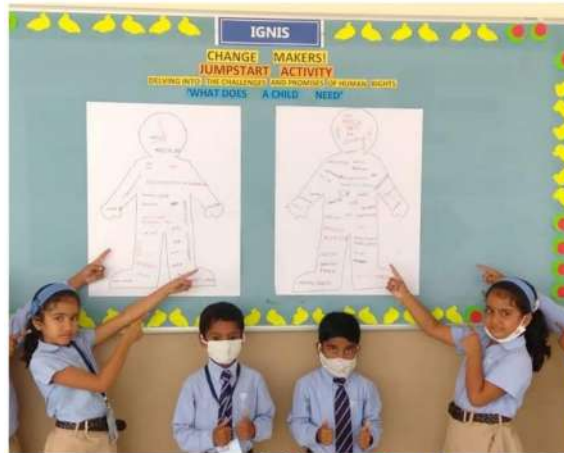
INTERSTELLER ART GALLERY

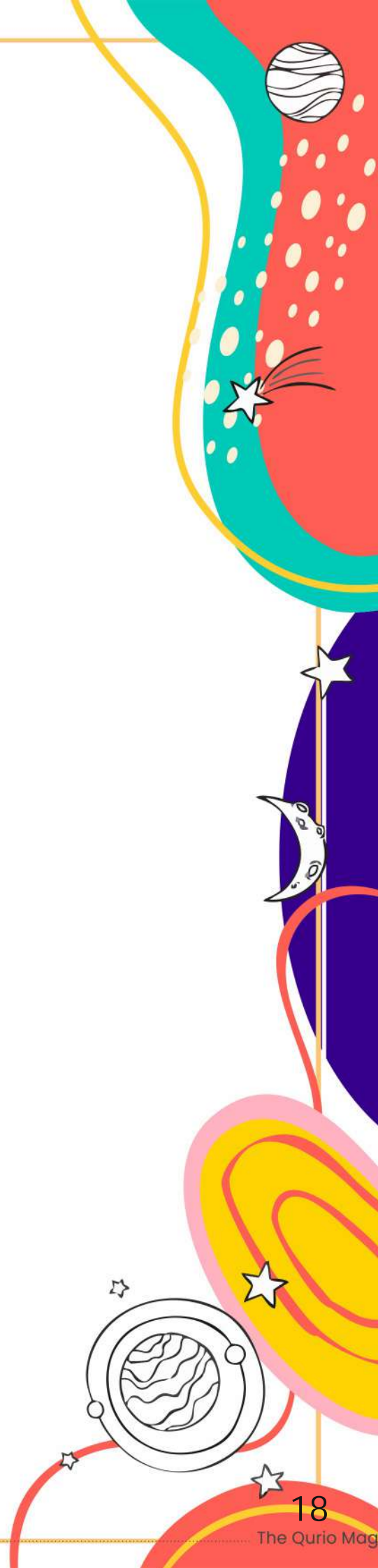


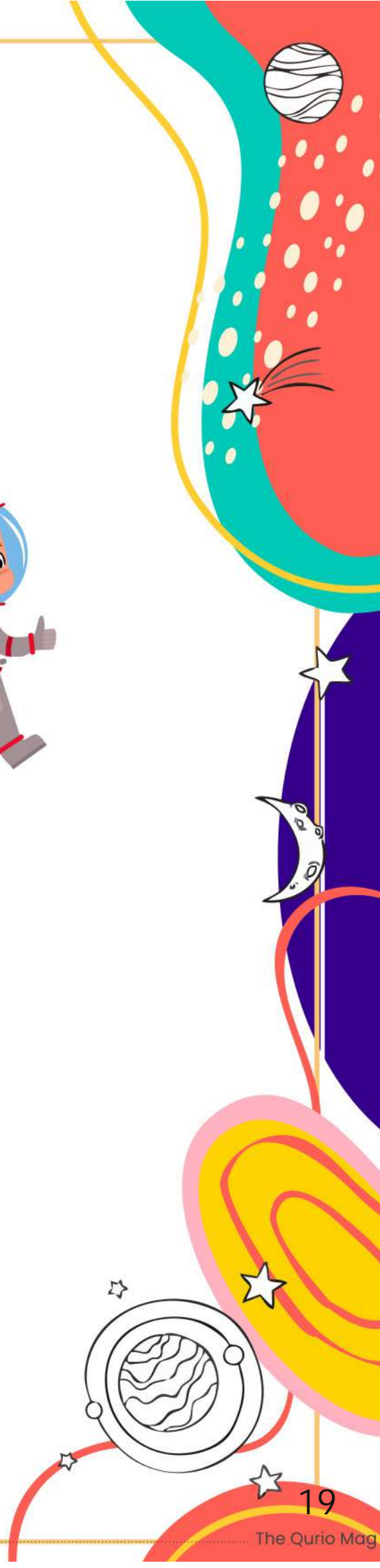


SPOTLIGHT @ PIS

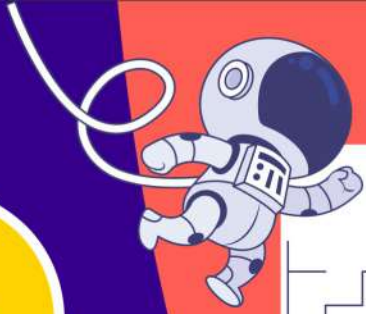




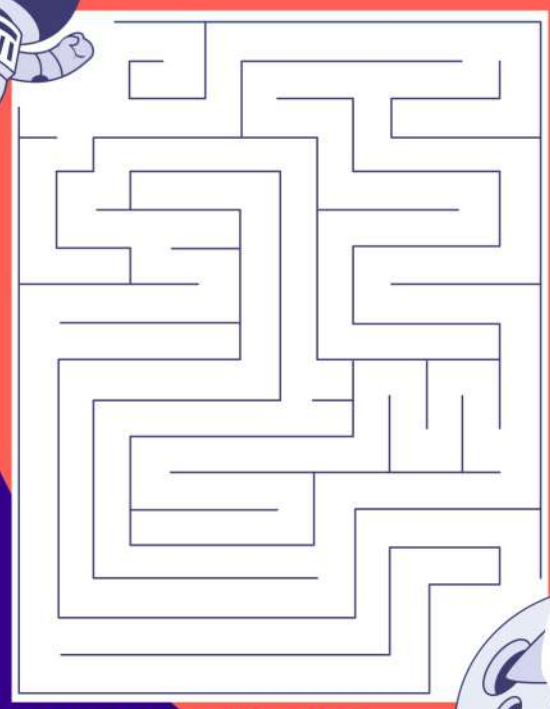




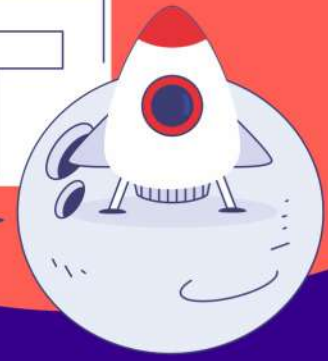
BRAIN PLAY



← **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?

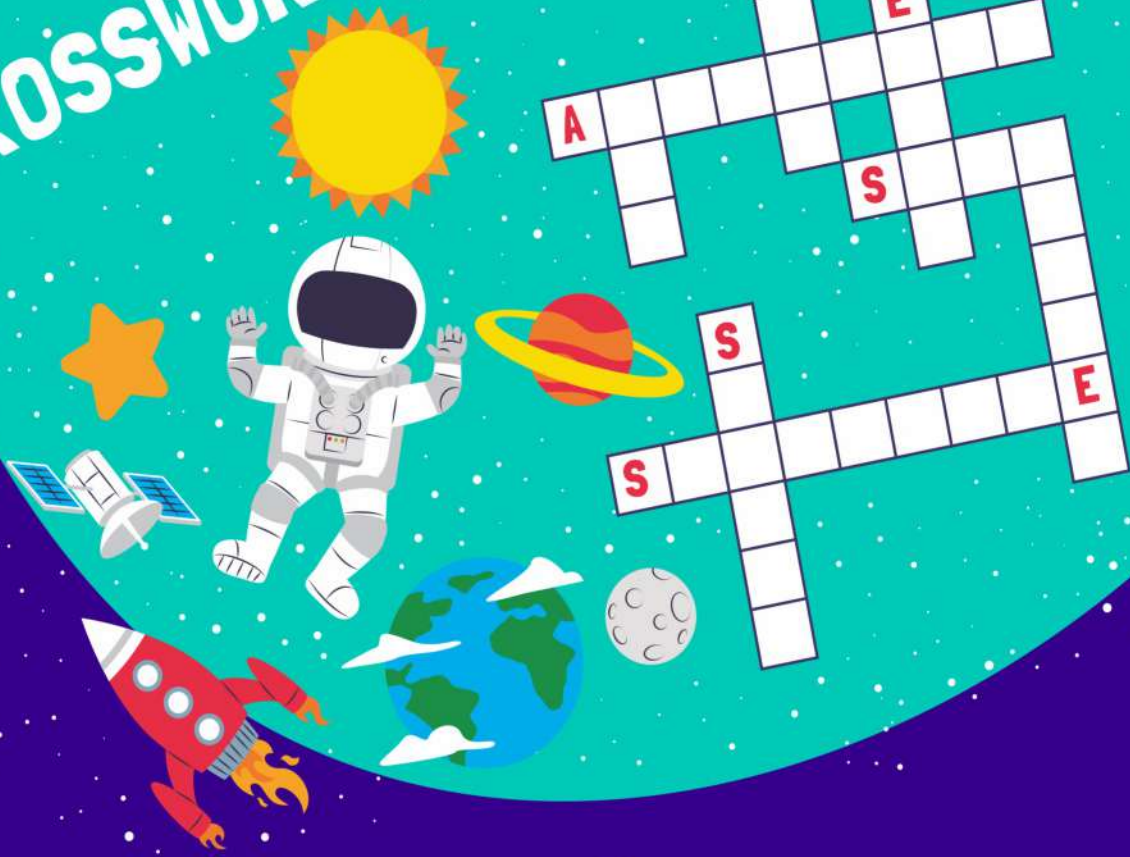
I can be looked through but I'm not a window,
 I have your eye pressed to me but I'm not a door peephole,
 I'm often placed on a tripod but I'm not a camera,
 I help you see things that are far away but I'm not a pair of binoculars,
 I'm often pointed at the sky but I'm not a satellite dish!



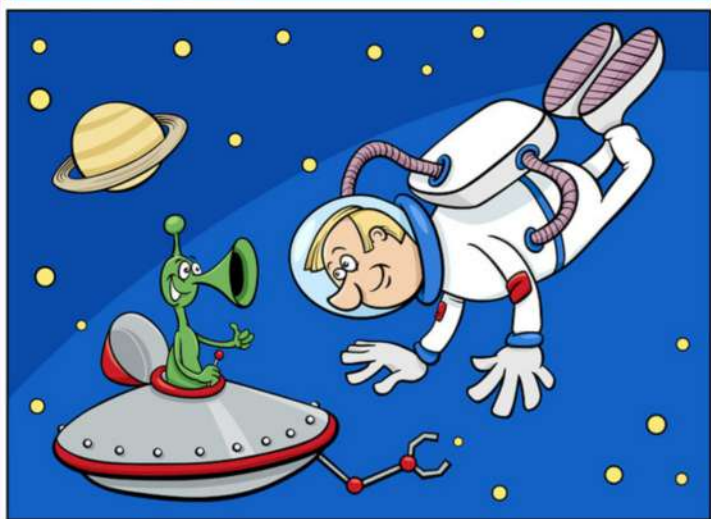
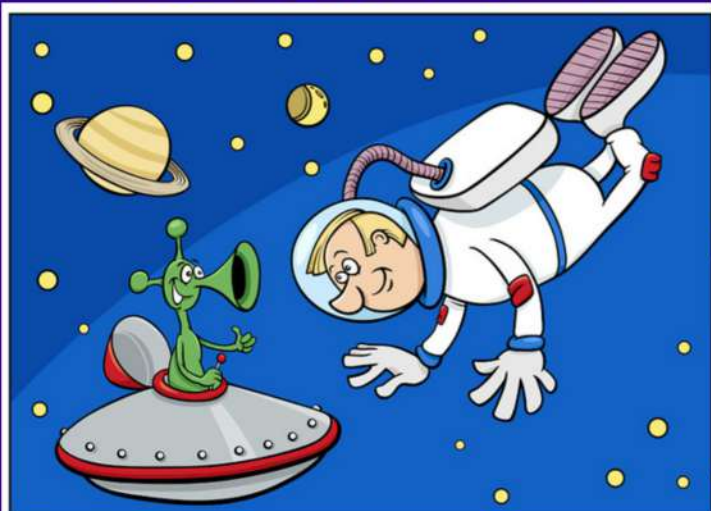
- STAR UFO
- SUN ROCKET
- ALIEN PLANET
- ASTRONAUT TELESCOPE
- MOON EARTH



CROSSWORD



Find 6 differences



Using just the letters in the word below, can you make at least 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 at least 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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Since 1927