

# THE QURIO

Mag

## The Earth & Beyond



Volume 1 | 2022  
PIS Mandya





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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 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.

We at Podar International School 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, 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

**Mr. Vijayaraj Raman,**  
Principal

Editor-in-Chief:

| Student Editor: **Master Varun KS**

| Student Editor: **Ms. Kaivalya**

Visual & Media In-charge: **Ms. Deepika**

| Creative Designer: **Mr. Lohith T**

# CHRONICLES OF SPACE



## STORY ABOUT SPACE

In space, no one can hear you scream. This is because there is no air in space - it is vacuum. Sound waves cannot travel through a vacuum.

Outer space begins about 100km above the earth, where the shell of air around our planet disappears. With no air to scatter sunlight and produce a blue sky, space appears as a black blanket dotted with stars.

Space is usually regarded as being completely empty. But this is not true. The vast gaps between the stars and planets are filled with huge amounts of thinly spread gas and dust. Even the emptiest parts of space contain at least a few hundred atoms or molecules per cubic meter.

Space is also filled with many forms of radiation that are dangerous to astronauts. Much of this infrared and ultraviolet radiation comes from the sun. High energy X-rays, gamma rays and cosmic rays particles traveling close to the speed of light arrive from distant star systems.

**Master Vishal krishnan N**  
Grade 4 'B'

## SPACE



Space is a scientific adventure. It enables people to know more than normal. Space travel is a 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 travel. We only know the sun and moon because we can see them in the sky. But there are many planets, stars, constellations, and galaxies in the universe. Space travelling helps people to learn about them today the world has many projects that go to space and bring knowledge of unknown and unseen details of the universe.

## ARIOS

Aryabhata Research Institute of Observational Sciences (arios) is a research institute in Nainital, Kumaon, India which specializes in astronomy, solar physics, astrophysics and atmospheric science. It is an autonomous body under the department of science and technology, Government of India. It has the largest optical telescope of Asia. Narendra Modi inaugurated the largest optical telescope of Asia through remote from Belgium.

**Master P.Arjun ganesh**  
Grade 4 'B'



# CHRONICLES OF SPACE

## Earth & beyond - Life

While the question is ancient, our understanding of the universe has changed over centuries. We know that stars do not hang from the sky like fruit on a tree. We also know Earth orbits the Sun and not the other way around. But we still don't know if life exists elsewhere. And if, extraterrestrial life does exist, does it have the technology to communicate with us on Earth?

If so, the Allen Telescope Array is listening, day and night for some signal. From time to time, the dishes pivot towards a new patch of the sky. The array has not yet picked up any alien calls. So far, intelligent life appears limited to Earth. But that has hardly frustrated scientists. The search for life elsewhere in the universe continues to prove irresistible to experts in a wide variety of fields. From the biology to astronomy and from psychology to computer science.

And they are not just looking for aliens that can communicate; many researchers suspect that simpler microscopic alien life might be lurking on distant and unfamiliar planet.

Ms. Hansikaa Jinka M  
Grade 6

### FACTS ABOUT IN OUR SOLAR SYSTEM

Planets	How wide?	One day is about	One year is about
<b>Mercury</b>	3032 miles (4,880km)	59 Earth Days	88 Earth days (about 3 months)
<b>Venus</b>	7,521 miles (12,104 km)	[-243 Earth days]	[-225 Earth days (about - 7 months)]
<b>Earth</b>	7,918 miles (12,743 km)	1 Earth Day	365 1/2 Earth Days
<b>Mars</b>	4,212 miles (6,779 km)	24 1/2 Earth hours	687 Each days (22 1/2 months)
<b>Jupiter</b>	86,881 miles (139,821 km)	10 Earth hours	12 Earth years
<b>Saturn</b>	72,367 miles (1,60,463 km)	10 1/2 Earth hours	29 Earth years
<b>Uranus</b>	31,518 miles (50,723 km)	[-17 Earth hours]	[-84 Earth years]
<b>Neptune</b>	30,559 miles (49,244 km)	16 Earth hours	165 Earth years

Ms.Vedika DY, Grade 8  
Source: Getepic - Planet

# SPACE PROJECTS



## Mangalyaan

Mangalyaan, or India's Mars Orbiter Mission (MOM), was India's first interplanetary mission. Launched by the Indian Space Research Organisation (ISRO), the Mangalyaan mission not only made ISRO the fourth agency to put a mission on Mars' orbit but also made India the first Asian country to reach the orbit of Mars.

The Mangalyaan mission also made India the first country to reach Martian orbit on its first attempt. The Mangalyaan mission brought several laurels to India and strengthened the Indian Space Research Organisation's position amongst the global space agencies, including the American NASA and Russian Roscosmos.

### Conception of the Mangalyaan Mission

The unmanned Mangalyaan mission was first publicly recognised by the then ISRO chairman, G. Madhavan Nair, in 2008.

The project began post the successful launch of Chandrayaan-1, with a study in 2010 by the Indian Institute of Space Science and Technology about analysing the feasibility of the project in its entirety.

The project was officially approved by Prime Minister Manmohan Singh on 3 August 2012.

### Achievement of Mangalayana

Through its Mangalyaan mission, India not only became the first Asian country to attain the feat of reaching Mars' orbit, it also became the first country to do so on its first attempt. The Mangalyaan Mission was also lauded for being the cheapest mission to Mars till date. In 2015, the team behind the mission won the Space Pioneer Award from the US-based National Space Society.

The Mangalyaan mission also earned praise from a Chinese foreign ministry spokesperson, who called the mission, 'Pride of Asia'.

### Master Varun KS, 8th Std.

Source: Indiatoday

Image: <https://solarsystem.nasa.gov/>



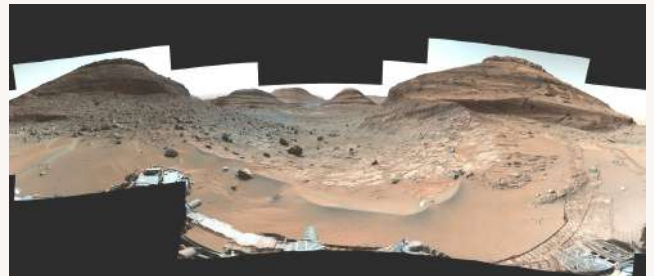


# THE UNIVERSE TODAY

Space & Astronomy News



The minerals were spotted by NASA's Mars Reconnaissance Orbiter years before Curiosity landed in 2012, so scientists have been waiting a long time to see this terrain up close. Soon after arriving, the rover discovered a diverse array of rock types and signs of past water, among them popcorn-textured nodules and salty minerals such as magnesium sulfate (Epsom salt is one kind), calcium sulfate (including gypsum), and sodium chloride (ordinary table salt).



## Victory for humanity as NASA confirms asteroid crash alters orbit

NASA has announced it succeeded in deflecting\* an asteroid\* in the historic test of humanity's ability to stop an incoming cosmic object from colliding with Earth.

The fridge-sized Double Asteroid Redirection Test (DART) craft deliberately smashed into the moonlet asteroid Dimorphos\* on September 26 GMT\* – but the real measure of success was pushing Dimorphos into a smaller, faster orbit around its big brother Didymos\*, said NASA chief Bill Nelson.

Astronomers\* rejoiced in stunning images of matter spreading out thousands of miles in the wake of the impact – pictures collected by Earth and space telescopes, as well as a mini satellite that had travelled to the zone with DART.

Source: [www.kidsnews.com.au/space](http://www.kidsnews.com.au/space)

Ms. Vishrutha Gowda  
Grade 5





# 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)

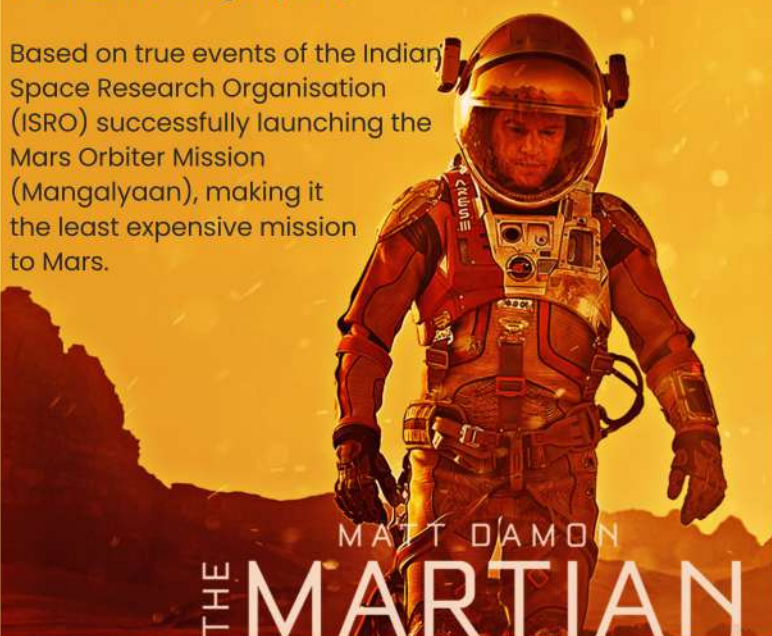
Two astronauts work together to survive after an accident leaves them stranded in space.

### 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.



## Books



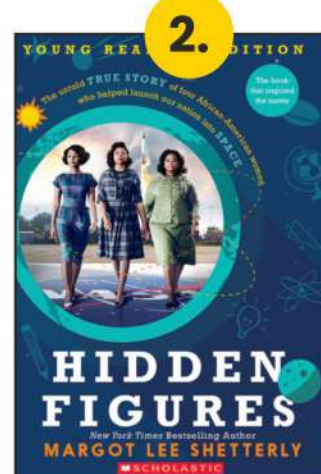
Sanity & Tallulah  
Molly Brooks



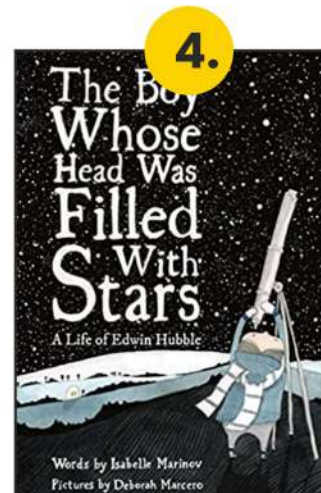
Galaxy Girls: 50 Amazing  
Stories of Women  
In Space  
Libby Jackson



The Kid Who Came  
From Space  
- Ross Welford



Hidden Figures  
Young Readers'  
Margot Lee Shetterly



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



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





# Review

## Movies & Books

Title of the Book/Movie: **Gravity - 2013**

### Movie/Book Summary:

Gravity Movie was released in 2013. Gravity was filmed from a book Gravity written by Mexican Alfonso Cuarón and filmed by Mr. Cuarón. A movie is all about livelihood in space of astronomers. This film makes me feel like travelling in between planets, stars in space. In the film visual effects are awesome it makes me feel that I'm travelling as astronomer.



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!)

**Master Karna Abhinandan**

Movie/Book Reviewed By: Grade 8

Title of the Book/Movie: **Galaxy Girls: 50 Amazing Stories of Women in Space**

### Movie/Book Summary:

The book was written by Libby Jackson, she working in British Space Agency. This is her first book exploring hidden scientist who worked for SPACE research and astronauts. The book contains the stories about women astronauts who helped to do a achieve in space exploration. The women astronauts and mathematician, Engineers and physicists, test pilots and aerospace psychophysicologists are pushing the boundaries of human knowledge, helping to understand the universe and contributions of those women.

How many hearts do you give this movie?

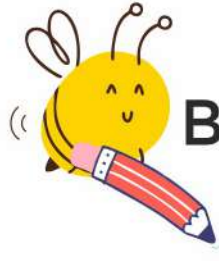
(Draw a heart to rate - 1 heart means the movie was really bad.

5 hearts means it was great!)

**Ms Kaivalya**

Movie/Book Reviewed By: Grade 8





# BUZZING POETS

ಭೂಮಿ

ಭೂರಮೆ, ಏನೆಂದು ಹೇಳಲ, ಏನೆಂದು ಹೆಸರಿತ್ತರಲ ನಿನ್ನ, ಪೃಥ್ವಿಯೋ, ಮಹಿಯೋ,  
ವಸುಂಧರೆಯೋ, ಧರೆಯೋ, ಇಳೆಯೋ, ಅವನಿಯೋ, ಉರ್ಬರೆಯೋ, ಉರ್ಜಿಯೋ ಒಂದೆ ಎರಡೆ  
ಹಲವಾರು ನಿನ್ನ ನಾಮ. ಹೆಸರೇ ಹೇಳುವಂತೆ ನೀ ನಮ್ಮ ತಾಯಿ. ನಿನ್ನ ಮಡಿಲಲ್ಲಿ ಹೊತ್ತು  
ನಿಂತಿರುವೆ ಇಡೀ ಜಗದ. ತಿನ್ನಲು ಅನ್ನ ಕೊಟ್ಟೆ, ಕುಡಿಯಲು ನೀರನ್ನು ಇಟ್ಟೆ, ಉಸಿರಾಡಲೆಂದೆ  
ಮರನಿಡಗಳನ್ನು ಕೊಟ್ಟೆ, ಮಲಗಲೆಂದು ನಿನ್ನ ಮಡಿಲನ್ನೆ ಕೊಟ್ಟೆ, ಆರೋಗ್ಯವಾಗಿರಲೆಂದು ಈ  
ನೆಲದಲ್ಲಿ ಔಷಧವನ್ನಿಟ್ಟೆ. ಪ್ರಾಣಿ-ಪಕ್ಷಿಗಳಿಗೆಂದೆ ಕಾಡನ್ನೆ ಕೊಟ್ಟೆ, ಕಾಡಿನಾ ತುಂಬೆಲ್ಲಾ ತರತರಹದ  
ಫಲವನ್ನೆ ಇತ್ತೆ, ಪ್ರಾಣಿಗಳ ದಾಹ ಇಂದಿನಿಲೆಂದೆ ನದಿಗಳನ್ನೆ ಹರಿಸಿದೆ.  
ಝುಳು ಝುಳು ಹರಿಯುವ ನೀರಲ್ಲಿ ನಿನ್ನ ಕಾಲ್ಟೆಜ್ಜೆ ಸದ್ದನ್ನು ಕಂಡೆ,  
ಜೀಸುವ ಗಾಳಿಯಲ್ಲಿ ನಿನ್ನ ಬಳುಕನ್ನು ಕಂಡೆ,  
ದಟ್ಟ ಕಾಫಿನದಲ್ಲಿ ನಿನ್ನ ಸೊಂಪು ಕೇಶರಾಶಿಯ ಕಂಡೆ,  
ಅಲ್ಲಿ ಹೂವರಳಿದಾಗ ನಿನ್ನ ಸಿಂಗಾರ ಕಂಡೆ,  
ಸೂರ್ಯೋದಯದಲ್ಲಿ ನಿನ್ನ ಮುಗುಳ್ಳಗೆ ಕಂಡೆ,  
ಮಣ್ಣಿನಲ್ಲಿ ನಿನ್ನ ಉಸಿರನ್ನು ಕಂಡೆ,  
ಬೆಟ್ಟಗುಡ್ಡದಲ್ಲಿ ನಿನ್ನ ದೈವಾಕಾರವನ್ನು ಕಂಡೆ,  
ಆ ಹುಲ್ಲು ಹಾಸುಗಳಲ್ಲಿ ನಿನ್ನ ಉಡುಗೆಯನ್ನು ಕಂಡೆ,  
ಸುರಿಯುವ ಮಳೆಯಲ್ಲಿ ನಿನ್ನ ಕರುಣೆಯ ಕಂಡೆ,  
ಬೋರ್ಗರೆವ ನೀರಲ್ಲಿ ನಿನ್ನ ಸಂತಸವ ಕಂಡೆ,  
ತಾಯಿ ನೀನೊಂದು ದೈವ, ನೀನೊಂದು ಜ್ಞಾನದ ನೆಲೆ.

**Master Rajath C Gowda**  
Grade 7

# SPACE Exploration



## Apollo 11

Humans have always looked at the heavens and wondered about the nature of the objects seen in the night sky. With the development of rockets and the advances in electronics and other technologies in the 20th century, it became possible to send machines and animals and then people above Earth's atmosphere into outer space. Well before technology made these achievements possible, however, space exploration had already captured the minds of many people, not only aircraft pilots and scientists but also writers and artists. The strong hold that space travel has always had on the imagination may well explain why professional astronauts and laypeople alike consent at their great peril, in the words of Tom Wolfe in *The Right Stuff* (1979), to sit "on top of an enormous Roman candle, such as a Redstone, Atlas, Titan or Saturn rocket, and wait for someone to light the fuse." It perhaps also explains why space exploration has been a common and enduring theme in literature and art. As centuries of speculative fiction in books and more recently in films make clear, "one small step for [a] man, one giant leap for mankind" was taken by the human spirit many times and in many ways before Neil Armstrong stamped humankind's first footprint on the Moon.

## Earth satellite, Sputnik 1



The first artificial Earth satellite, Sputnik 1, was launched by the Soviet Union on October 4, 1957. The first human to go into space, Yuri Gagarin, was launched, again by the Soviet Union, for a one-orbit journey around Earth on April 12, 1961. Within 10 years of that first human flight, American astronauts walked on the surface of the Moon. Apollo 11 crew members Neil Armstrong and Edwin ("Buzz") Aldrin made the first lunar landing on July 20, 1969. A total of 12 Americans on six separate Apollo missions set foot on the Moon between July 1969 and December 1972. Since then, no humans have left Earth orbit, but more than 500 men and women have spent as many as 438 consecutive days in space. Starting in the early 1970s, a series of Soviet (Russian from December 1991) space stations, the U.S. Skylab station, and numerous space shuttle flights provided Earth-orbiting bases for varying periods of human occupancy and activity. From November 2, 2000, when its first crew took up residence, to its completion in 2011, the International Space Station (ISS) served as a base for humans living and working in space on a permanent basis. It will continue to be used in this way until at least 2024.

Source: [sputniknews.com](http://sputniknews.com)

Ms. Vaishnavi L Gowda & Ms. Anisha N

Grade 8



# 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





# SPOTLIGHT @ PIS

## ATHLETICS & THROWBALL CHAMPIONS AT CLUSTER LEVEL

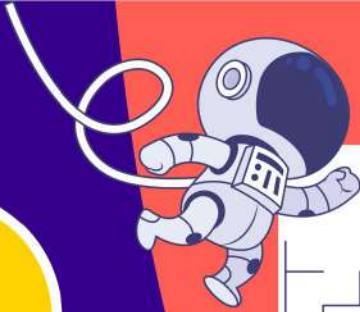


## WINNERS OF PRATHIBHA KARANJI AT CLUSTER LEVEL

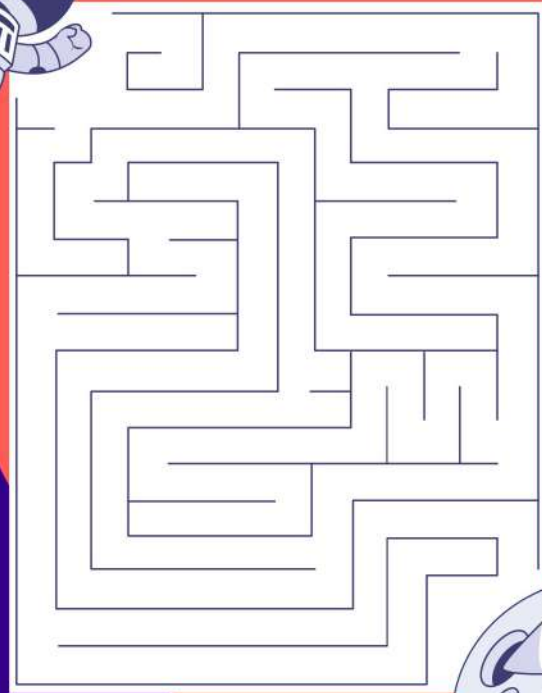




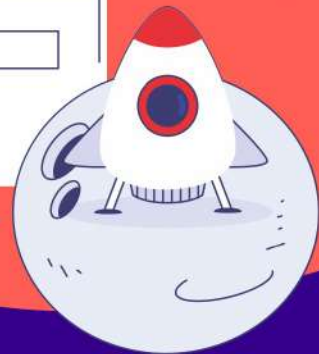
# BRAIN PLAY



← **HELP THE ASTRONAUT**



**GET BACK TO HIS SHIP** →



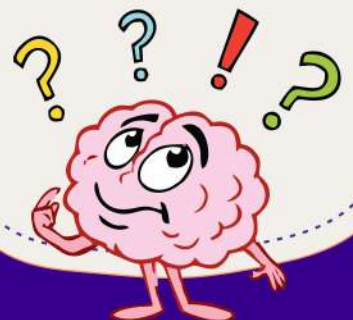
## SPACE PUZZLE

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!

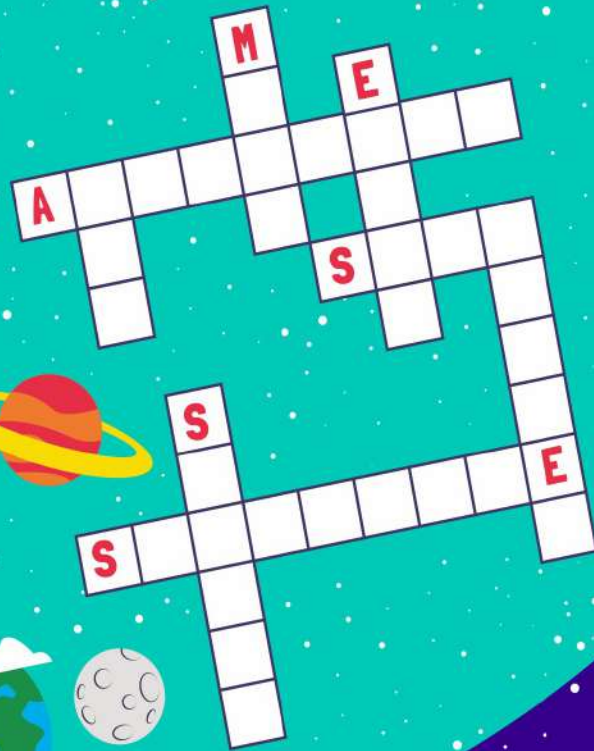
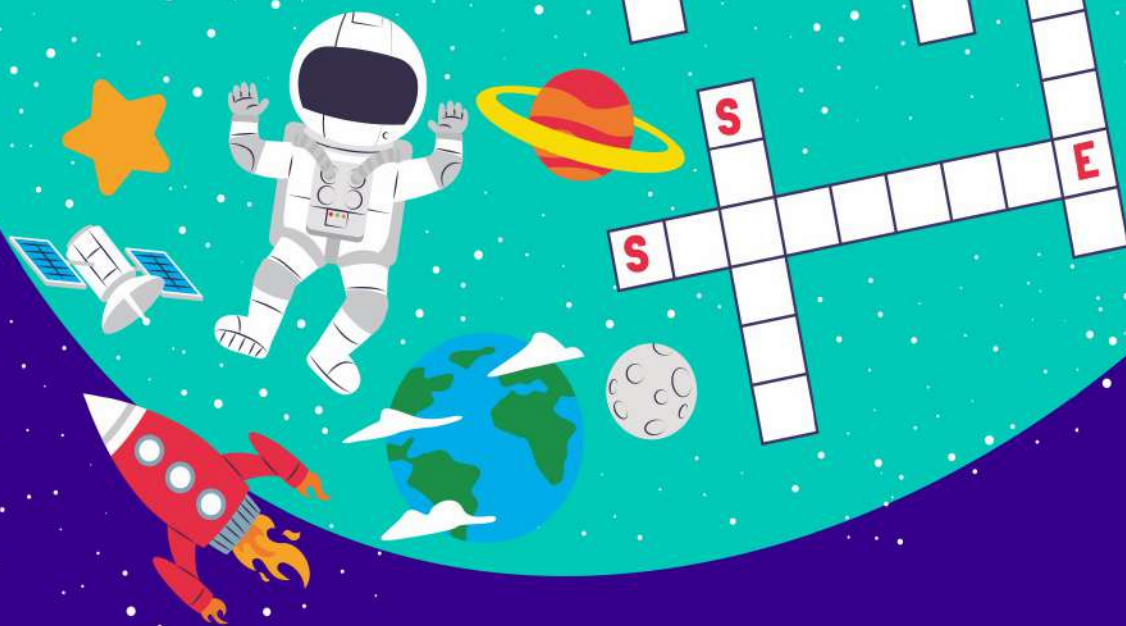


STAR UFO SUN ROCKET ALIEN PLANET ASTRONAUT TELESCOPE MOON EARTH

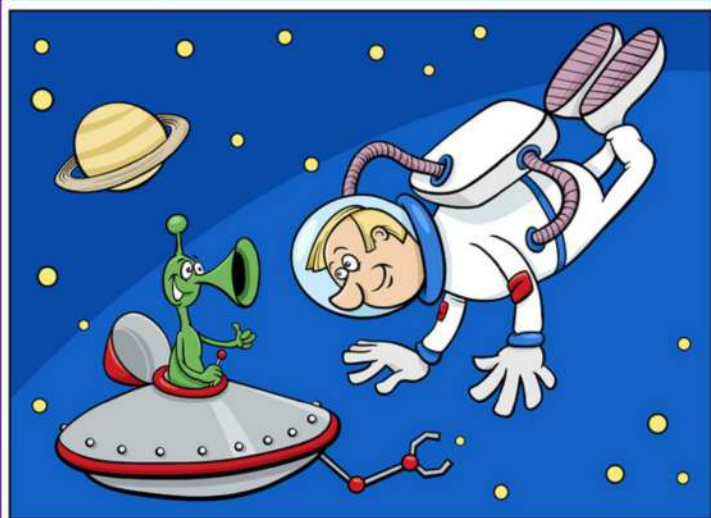
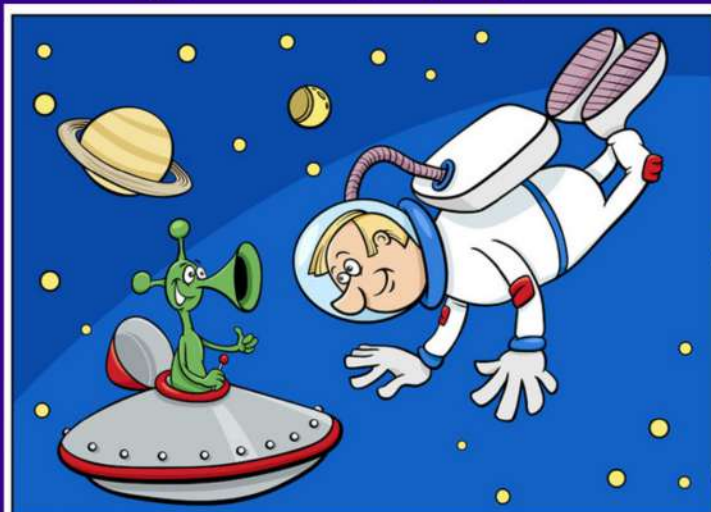




# CROSSWORD



## Find 6 differences



Using just the letters in the word below, can you make 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??



