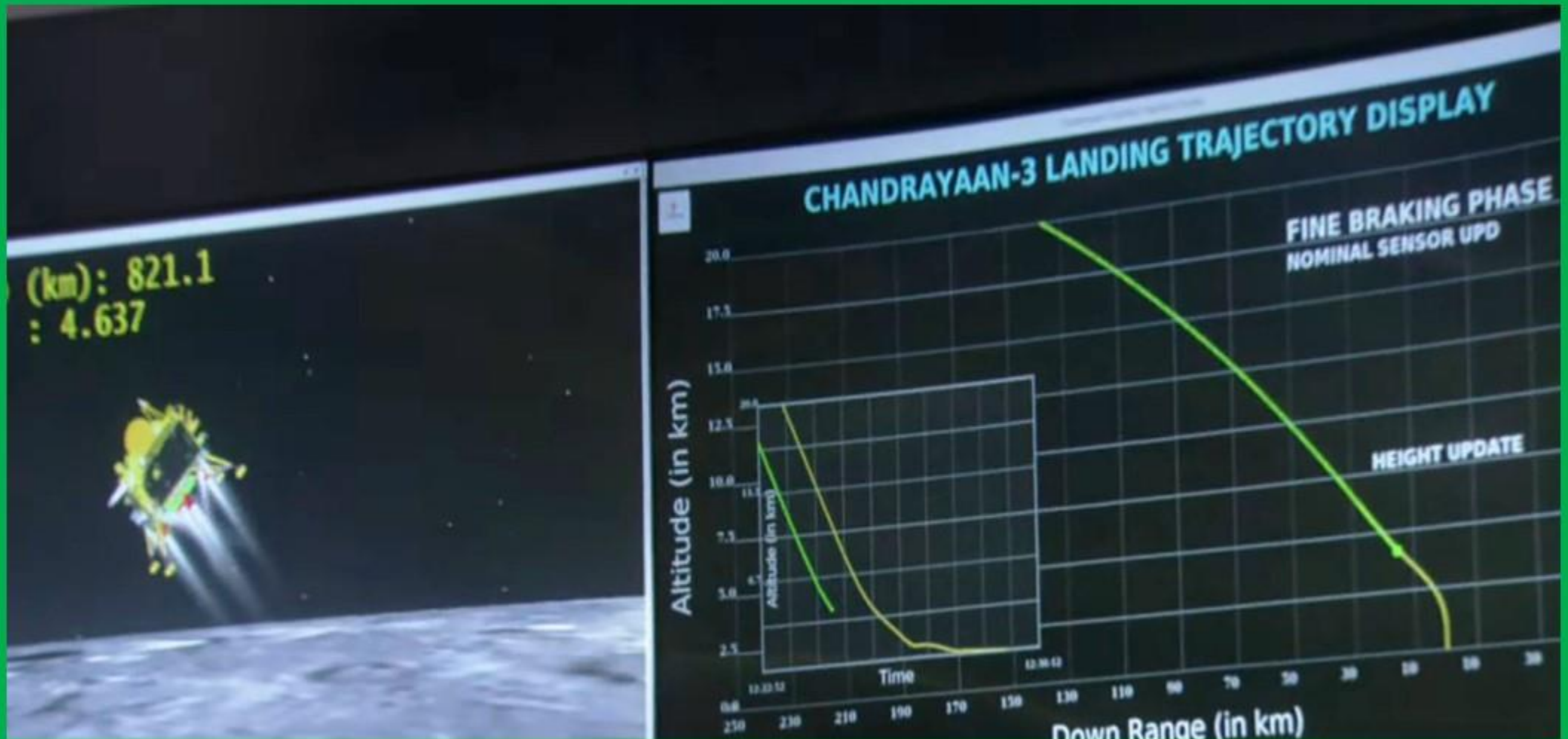


What's happening in the news this week?



Let's have a look at this week's poster!

25th September - 1st October 2023



Let's look at this week's story

In recent weeks, both India and Russia's space agencies have tried to send unmanned missions to the Moon. They were heading to the lunar South Pole, which is a less explored part of the Moon. Whilst Russia's shuttle crashed into the Moon's surface after spinning out of control, India has become the first nation to land near the Moon's South Pole. The mission, named Chandrayaan-3, has been declared a success as the Vikram lander touched down at the end of August. The lunar South Pole is covered by shadow and largely unknown.



Learn more about this week's story [here](#).
Watch this week's useful video [here](#).
This week's Virtual Picture News [here](#).



How does it make me feel?



sad	angry	happy	confused	excited	worried	shocked	afraid
despondent disconsolate dismal doleful downhearted forlorn gloomy melancholic miserable woeful wretched	aggrieved annoyed discontented disgruntled distressed exasperated frustrated indignant offended outraged resentful vexed	beaming buoyant cheery contented delighted enraptured gleeful glowing joyful	addled baffled bemused bewildered disorientated indistinct muddled mystified perplexed puzzled	animated elevated enlivened enthusiastic exhilarated exuberant thrilled	agitated anxious apprehensive concerned disquieted distraught distressed disturbed fretful perturbed troubled uneasy	astonished astounded disconcerted distressed dumbfounded horrified staggered startled stunned surprised	alarmed apprehensive daunted fearful frantic horrified petrified terrified

This week's story looks at events related to ...





Read through the information below about the recent attempts to reach the Moon's South Pole.

Which countries have tried to reach the Moon's South Pole?

Japan, Israel, and most recently Russia, whose Luna-25 spacecraft crashed onto the surface of the Moon's South Pole, have all attempted to land there. India was the first country to successfully land at the South Pole of the Moon. It was also the first time India had landed a spacecraft on the Moon. The South Pole is a more challenging landing site than the other parts of the Moon, as there are many huge craters and deep trenches.



Pictured: Chandrayaan-3 mission's Vikram lander on the Moon, taken by a rover.
Source: ISRO (Indian Space Research Organisation).



Pictured: The south polar region of the Moon.

Why do people want to travel to the Moon's South Pole?

The south polar region is important because scientists believe water is present in the area in the form of ice.

The hope is this water could someday support humans living on the Moon and help manufacture fuel for rockets launching from the Moon to Mars.

The water may also help scientists learn more about our own planet, Earth.



Share why you think it has taken until now to have a successful landing.



Look at the resource below, which shares some information about some well-known space explorers.

In December 2015, Tim Peake went on a 6-month space mission. He ran the London Marathon in space and became the first British astronaut to visit the International Space Station and conduct a spacewalk.

Pictured below: Tim Peake during his first spacewalk.



In 1961, Yuri Gagarin from Russia, was the first person ever to journey into outer space.

Pictured above: A statue of Yuri Gagarin found in a park in Bucharest, Romania.

African American, Mae Jemison, was selected to be an astronaut by NASA in 1987. In 1992, she flew on the Space Shuttle Endeavour. Her role during this mission was science mission specialist. She completed a huge 44 experiments with her crew during the 7 days and 22 hours she was in space.

Pictured below: Mae Jemison.

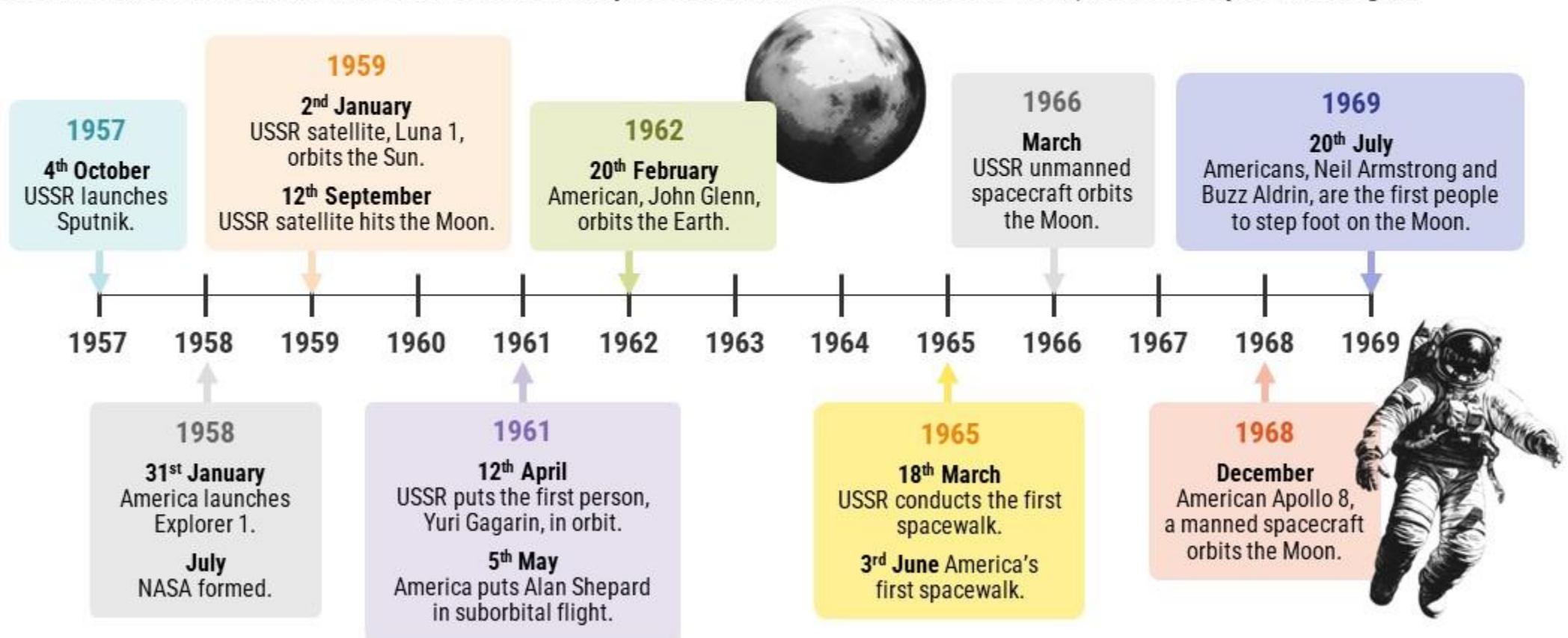


**Have you heard of any of these explorers before?
Why do you think they might be well-known?**



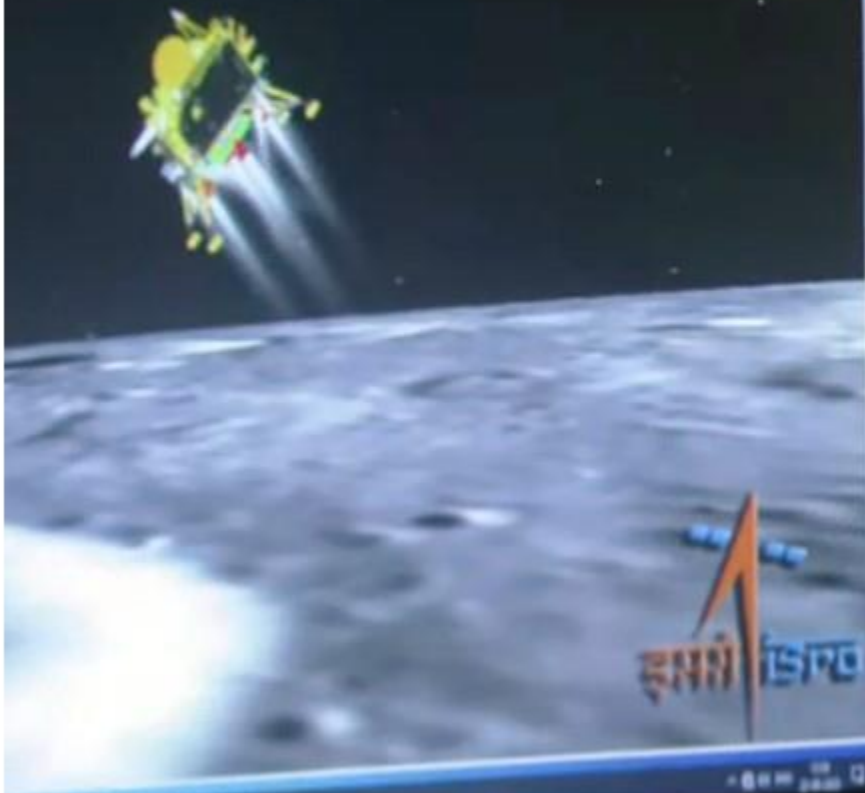
Look at the resource below, which shares some information about the space race.

After World War II, Russia (known as the USSR at the time) and America were two powerful countries, that were run in very different ways. Each nation was worried about how powerful the other one was becoming and so the Cold War broke out. It was not a war fought with armies and tanks; it was threats made between the countries, spying, inventing better technologies etc. Soon this rivalry moved to space. Both Russia and America believed whoever controlled space would be able to influence the world, and so the space race began.

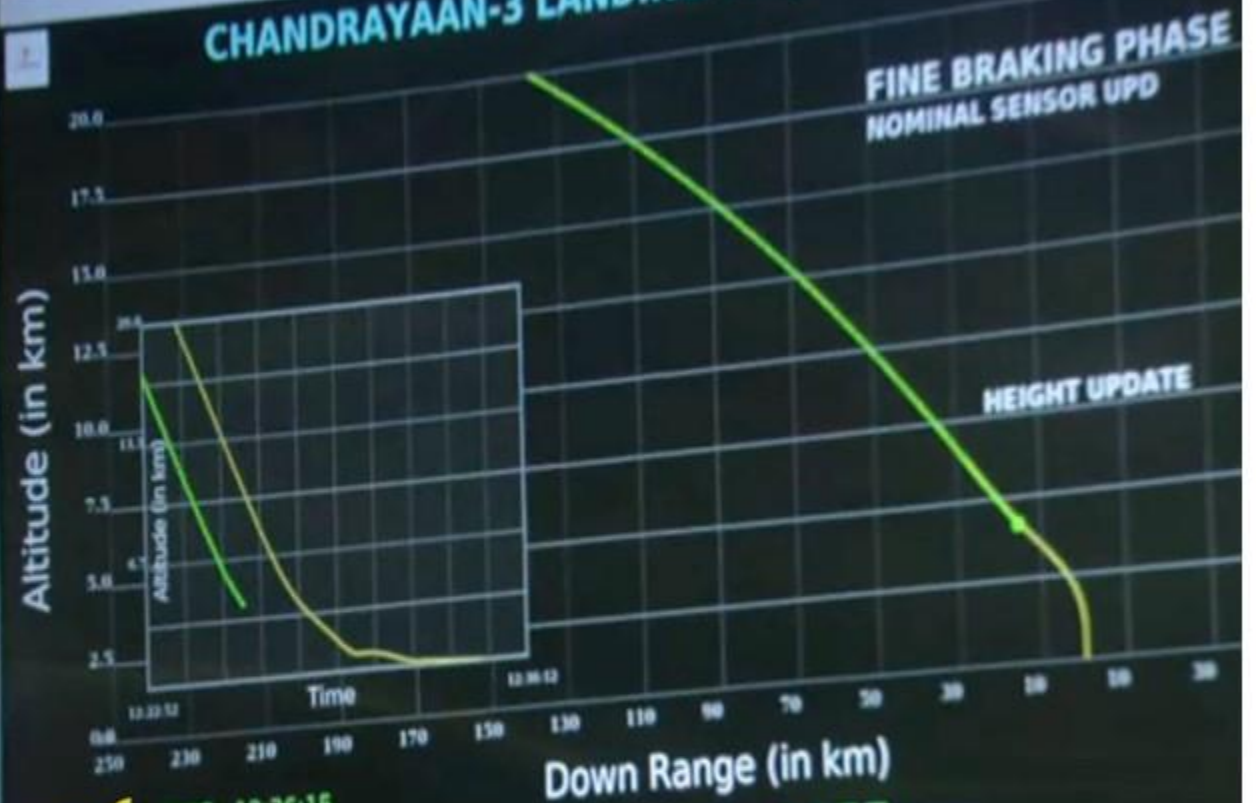


When do you think Russia was leading in the space race and when do you think America was?

(km): 821.1
: 4.637



CHANDRAYAAN-3 LANDING TRAJECTORY DISPLAY



DATE: 12:26:15
Picture News

SERVER 1 [Progress Bar] SERVER 2 [Progress Bar]

How important is space exploration?

BIK

2 1:26:22

IST

12:26:37

Reflection



Understanding more about the universe beyond our planet can help us to learn more about our own planet, and help advances in technology.





Individual Liberty

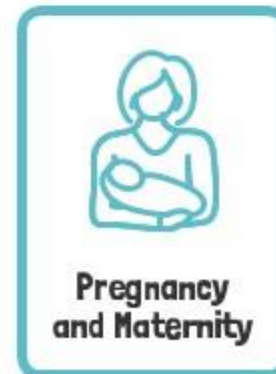
Exploring space can be exciting and helps us to learn more about the universe.

We have a responsibility to consider the impact space exploration may have and manage any risks involved.

Protected Characteristics



People from many different nations have been involved in space exploration. If we have the education, training and skills to explore space then our colour or nationality should never be the reason we cannot.





UN Rights of a Child



We all have the right to get information about space exploration from the internet, radio, television, newspapers, books and other sources.



Useful vocabulary



Declared

Announce or state something openly or formally.

The mission, named Chandrayaan-3, has been **declared** a success as the Vikram lander touched down at the end of August.

Exploration

The action of travelling through a new or unfamiliar area to learn more about it.

How important is space **exploration**?

Lander

A spacecraft designed to land on a planet or moon.

The mission, named Chandrayaan-3, has been declared a success as the Vikram **lander** touched down at the end of August.

Manufacture

To make something in large quantities, usually in a factory.

The hope is this water could someday support humans living on the Moon and help **manufacture** fuel for rockets launching from the Moon to Mars.

Shuttle

A vehicle or aircraft that travels regularly between two places.

Whilst Russia's **shuttle** crashed into the Moon's surface after spinning out of control, India has become the first nation to land near the Moon's South Pole.

Unmanned

Not having or needing a crew or staff.

In recent weeks, both India and Russia's space agencies have tried to send **unmanned** missions to the Moon.

Can you use them in your writing this week?



How important is space exploration?

In recent weeks, both India and Russia's space agencies have tried to send unmanned missions to the Moon. They were heading to the lunar South Pole, which is a less explored part of the Moon. Whilst Russia's shuttle crashed into the Moon's surface after spinning out of control, India has become the first nation to land near the Moon's South Pole. The mission, named Chandrayaan-3, has been declared a success as the Vikram lander touched down at the end of August. The lunar South Pole is covered by shadow and largely unknown.



- Look at this week's poster image and share your initial thoughts as to what the story may be about. Discuss how the team in India might have felt about the news of the successful landing after many unsuccessful attempts and years of planning.
- The first successful Moon landing with astronauts was 54 years ago, and it has been 51 years since anyone else has walked on the Moon. Do you think it is important for people to go there or do you think it is better for the vehicles to go alone using robotic technology?
- Read through the information found on the assembly resource about the recent attempts to reach the Moon's South Pole. Share why you think it has taken until now to have a successful landing.
- Watch this week's useful video, which explains more about the recent missions. Is space exploration something that interests you?
- What do you think we can learn from exploring the Moon and space? Do you think it is a positive thing to do?

Reflection

Understanding more about the universe beyond our planet can help us to learn more about our own planet, and help advances in technology.



KS1 focus

Who are some of the most well-known space explorers?



- Write 'explorer' on the board. Have you heard of this before? What do you think an explorer is?
- An explorer is a person who travels through a new or unfamiliar area so they can learn more about it. They explore! The people who have visited space are explorers. Do you know the names of any space explorers?
- Look at resource 1, which shares information about some well-known space explorers. Have you heard of any of these explorers before? Why do you think they might be well-known?
- The three people on resource 1 are all astronauts and have been into space. Do you think you have to visit space to be a space explorer? Is it possible to explore space from Earth? Think about how this week's story is all about using robotic technology to explore the Moon!
- Share anything else you know about space and space exploration. Do you think you would enjoy exploring space? Discuss how travelling to space might feel. Exciting, terrifying, nerve-racking?
- Have you ever travelled through a new or unfamiliar place on Earth? If so, does this make you an explorer? Do you enjoy exploring? Does everyone feel the same way?

Reflection

The first ever person travelled through space in 1961. Since then, many other people have explored space, helping us to learn more about it!



KS2 focus

What was the original space race?



- Write 'space race' on the board. Have you heard of the space race before? If you have, share anything you know, if you haven't, what do you think it might be?
- Look at resource 2, which shares some information about the space race. When do you think Russia was leading in the space race and when do you think America was?
- Discuss how the two powerful countries racing to control space impacted space exploration. Do you think because it was a race, technology advances were made more rapidly? Why? Consider resources, time and money invested into it.
- Many people believe the space race ended in 1969, when Neil Armstrong and Buzz Aldrin landed on the Moon. Do you agree with this? Would you say America were the winners? Why?
- Space travel and exploration has continued since the space race. This has led to a greater understanding of the world: the environment, weather and technologies. How do you think space exploration may impact our future?
- Have you heard of the private companies SpaceX, Virgin Galactic or Blue Origin? What do you know about them?
- Each of these companies is grappling to make space tourism a reality. How important do you think it is to be the first to achieve this?

Reflection

The space race between Russia and America saw many incredible discoveries, advances and achievements that impacted humankind.



KS2 follow-up ideas

Option 1

Days, months, years and seasons are all periods of time that are linked to the movement of the Earth around the Sun and the movement of the Moon around the Earth.

- Can you name the seasons?
- What month were you born in? What season is it?
- How many days are there in a month? Can you name each month and the number of days it has?
- How many months are in a year?
- How many days are there in a year?
- What is a leap year? Can you explain why there is a leap year?

Option 2

Use this opportunity to explore the Moon and its movement relative to the Earth.

- Can you observe the Moon each evening and make a record of what it looks like?
- How would you describe the shape of the Moon each evening?
- Was the Moon easily seen? Why?

The Moon does not produce its own light. We can see it because it reflects the light from the Sun. The Moon orbits the Earth and as this happens, the appearance of the Moon changes when we look at it. It appears to be a different shape as different parts of it are illuminated. Challenge – find out about a lunar month, how long it lasts and the Moon phases.



KS1 follow-up ideas

Option 1

Imagine you are exploring a place for the very first time. It might be somewhere in space or a hidden part of Earth yet to be discovered!

- Where is it?
- Who is with you?
- What are you wearing? Do you have any items with you?
- What can you see, hear, smell?
- Have you found anything interesting?
- Have you discovered something new?
- How do you feel?

Use pictures, words and/or sentences to describe your place.

Option 2

Create a rocket picture, blasting off into space! Think about:

- What shape will your rocket be?
- What colour will it be?
- Will you use paint, crayons, chalk, pastels or different materials to create your rocket?
- Will it be blasting off into the night sky or will the Sun be there?

Use the rocket images below or others found online to help inspire your rocket art!



This week's useful websites

This week's news story

www.space.com/india-chandrayaan-3-global-moon-race

This week's useful video

Mission to the Moon's South Pole
www.youtube.com/watch?v=rNZ-CVMRWuM

This week's Virtual Picture News

www.picture-news.co.uk/discuss

This week's vocabulary

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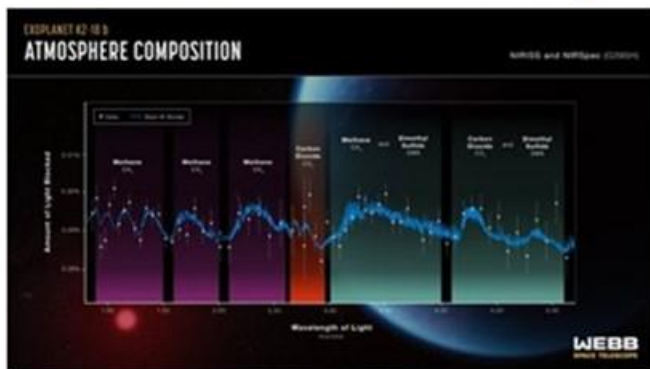
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Unmanned

Not having or needing a crew or staff. In recent weeks, both India and Russia's space agencies have tried to send **unmanned** missions to the Moon.

'The Best Place to Look for Life in Our Galaxy'



Pictured: The atmosphere composition data released by James Webb Space Telescope. **Source:** NASA Webb Telescope Twitter page.

NASA has confirmed that they have identified an ocean world with an atmosphere, 120 light years away from Earth in the constellation Leo. Experts say that this could be the best place to look for life in our galaxy. Scientists, working with the James Webb Space Telescope, identified a planet that may contain both a protective atmosphere and a surface covered entirely by oceans. The world's most powerful space telescope has detected exoplanet K2-18 b, which is eight times the size of Earth and has an



Pictured: James Webb Space Telescope. **Source:** NASA Webb Telescope Twitter page.

atmosphere containing carbon dioxide and methane. Scientists are excited to have possibly identified a molecule called dimethyl sulphide (DMS) as found on Earth; this is only produced by life! 'The abundance of methane and carbon dioxide, and shortage of ammonia, support the hypothesis that there may be a water ocean underneath a hydrogen-rich atmosphere in K2-18 b. The bulk of the DMS in Earth's atmosphere is emitted from phytoplankton in marine environments,' Nasa said in a press release.

Puffin Parade

A collection of puffin sculptures has raised close to £100,000 at auction. The artworks were part of Guernsey's Puffin Parade, a community event held between April and August displaying 60 puffin sculptures. The 4ft sculptures were constructed in the Philippines and then decorated locally by school children, artists, clubs and other community groups. The money raised from the auction will go to GSPCA, the parade's organisers, Autism Guernsey and other local charities. GSPCA Manager,

Steve Byrne, said, 'The Guernsey Puffin Parade has been such an incredible event. There are so many to thank and despite being a long day from getting them all in place to the auction we really couldn't believe how amazingly we have been supported.' Last year's Golden Guernsey Goat Trail raised more than £73,000 - with one particular goat sculpture selling for over £10,000!

Do you have any ideas for Guernsey's next sculpture community event?



Pictured: Some of the puffin sculptures. **Source:** GSPCA Twitter page.

Share your thoughts and read the opinions of others

www.picture-news.co.uk/discuss



Youth Conservation Success Story

As part of International Youth Day, a youth conservation success story is being celebrated as 1.2 million kg of plastic waste has been removed from Indonesian Rivers. Sungai Watch is an environmental organisation on a mission to stop plastic from going into the ocean. Siblings Gary, Kelly and Sam Benchehghib founded the charity in 2020, which aims to collect waste from rivers before it can enter the ocean. They have designed simple, effective waste barriers which can be installed across rivers when they are alerted by the public to problem areas. The team now consists of 90 passionate river warriors, working every day in Bali, Indonesia. Once the barriers are installed and the rubbish collected, it is

then sorted and up-cycled. They state on their website, 'We have created a scalable approach to tackling plastic pollution. We are on a mission to install 1,000 barriers throughout Indonesia.' Sam Benchehghib added, 'I grew up in Indonesia and saw that plastic pollution was getting worse and worse throughout the years. I think that's the beauty of being an entrepreneur and fighting an issue like plastic pollution, where new challenges and variables are always presented to you. This has been a true-life school for us.'

Have you heard of International Youth Day before? Do you think that this is important to celebrate young people who are making a difference in the world?



Pictured: Sungai Watch team cleaning up rivers and collecting trash in Bali. **Source:** Sungai Watch Twitter page.

Last week's topic:

Should lifejackets be compulsory for all on open water?



I think that it is a good idea for people under 12 that can't swim. I can swim but I would put one on just in case.

Neva

I think that life jackets are very important because these life jackets save the lives of thousands and thousands of people. We should respect the crew members too.

Alfred

Personally, [I think] life jackets should be compulsory to all for safety reasons. Without one, anything bad could happen, and a life jacket could protect the person.

Jayden

Let us know what you think about this week's news?

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 [@HelpPicture](https://twitter.com/HelpPicture)

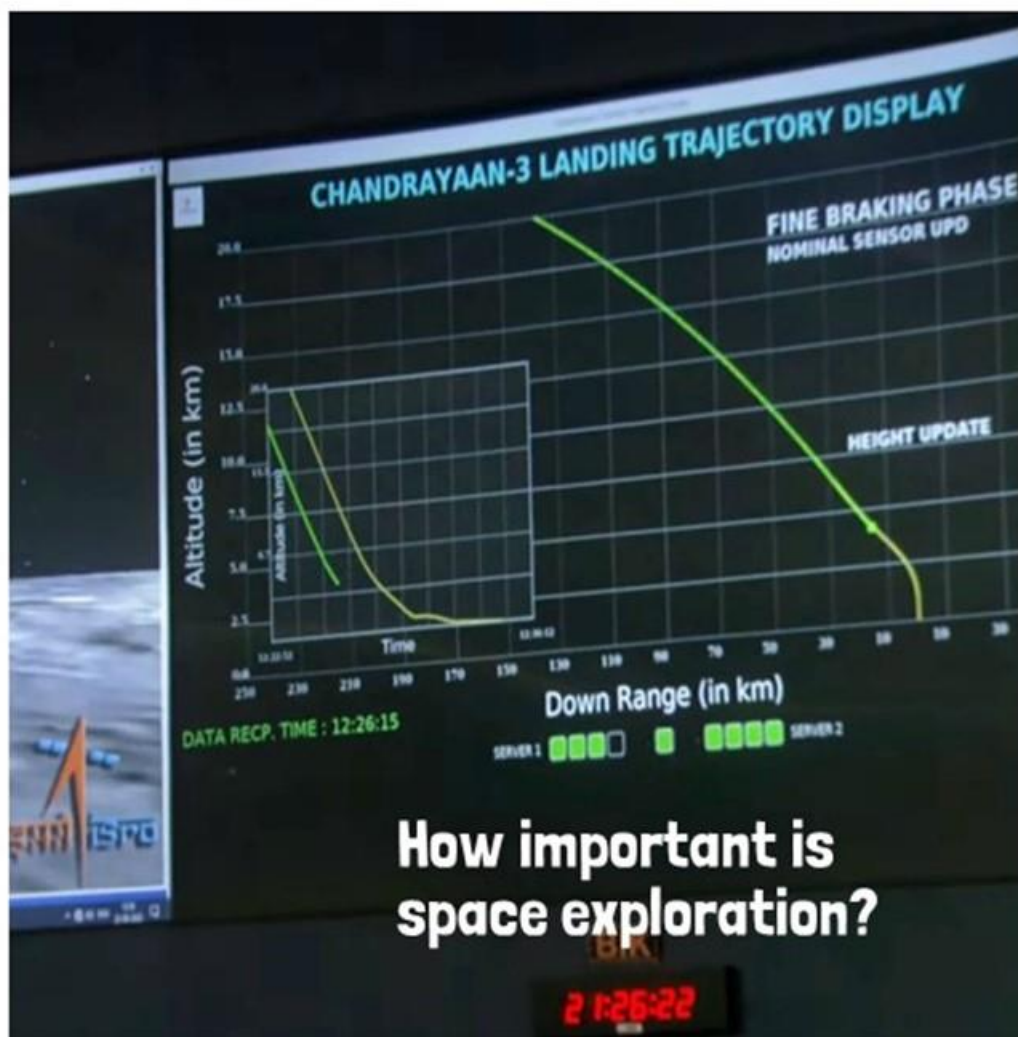
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TAKEHOME



How important is space exploration?

In the news this week

In recent weeks, both India and Russia's space agencies have tried to send unmanned missions to the Moon. They were heading to the lunar South Pole, which is a less explored part of the Moon. Whilst Russia's shuttle crashed into the Moon's surface after spinning out of control, India has become the first nation to land near the Moon's South Pole. The mission, named Chandrayaan-3, has been declared a success as the Vikram lander touched down at the end of August. The lunar South Pole is covered by shadow and largely unknown.

Things to talk about at home ...

- > Share your thoughts on the recent competition for countries to reach the Moon's South Pole.
- > Is space exploration something that interests you? What do you think we can learn from exploring space?

Please note any interesting thoughts or comments

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www.picture-news.co.uk/discuss

