Keeping Space Exciting

Nathan Price





What is Excitement?





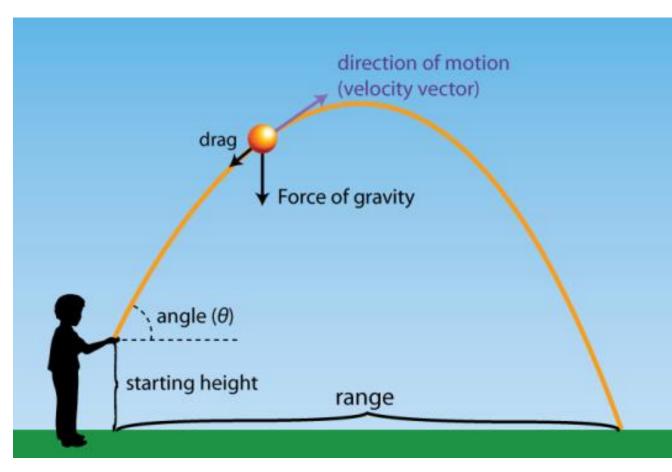
What are your most vivid, exciting space memories?

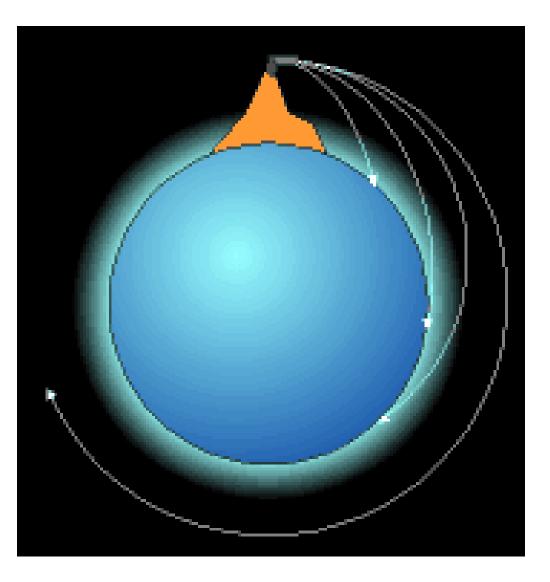
Golden Age of Space Excitement

The Space Race

Date	Country	Achievement
1955 July 29		The United States announces their intention to launch an artificial satellite ^[1] during the International Geophysical Year (1 July 1957 to 31 December 1958).
1955 August 30	ă.	In the Soviet Union, the commission approved launching a 1 ton satellite using the R-7 ICBM. ^[1]

Orbits





Date	Country	Achievement	Mission / Vehicle
1957 August 21	8	First intercontinental ballistic missile (ICBM); fully operational September 1957	R-7 Semyorka
1957 October 4	*	First artificial satellite First man-made signals from orbit	Sputnik 1





WARSAW, Poland, Oct. 4 (Reuters)-Citizens stoned police militiamen tonight as an angry demonstration erupted in front of Polish Communist party headquarters.

WEATHER

High today 64.

The police-completely outnumbered by thousands



MOSCOW, Saturday, Oct. 5 (AP)-The Soviet Union announced today it has the world's first artificial moon streaking around the globe 560 miles out in space.

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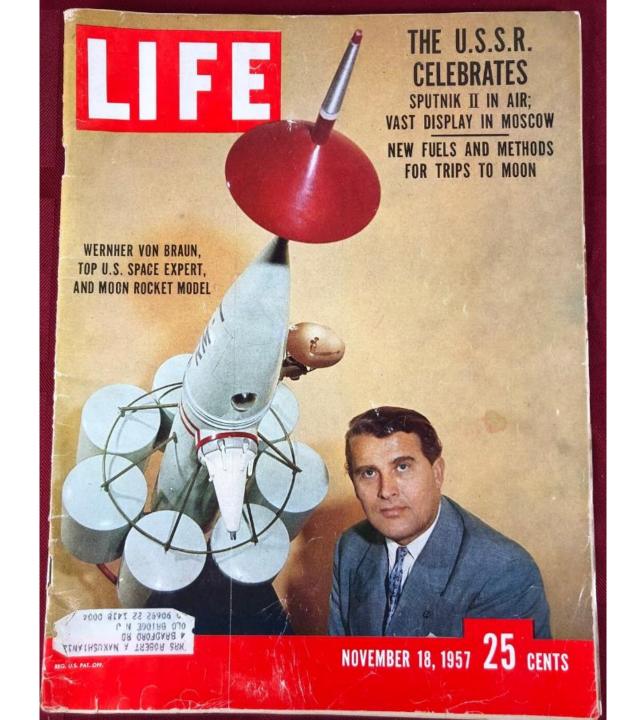
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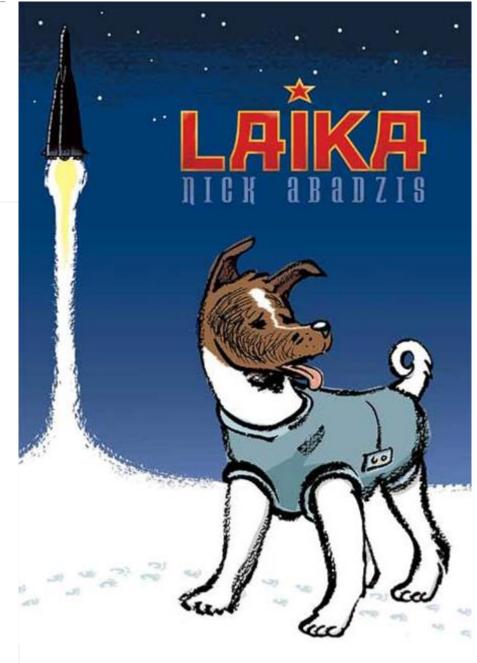
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1958 March 17		First solar-powered satellite
1959 January 2		First lunar spacecraft (fly-by) First rocket engine restart in Earth orbit First spacecraft to leave Earth's orbit First spacecraft on an escape trajectory from Ea
1959 January 4	*	First spacecraft in heliocentric orbit
1959 February 28		First satellite in a polar orbit
1959 August 7		First photograph of Earth from orbit



Discoverer 1



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1958 March 17		First solar-powered satellite	Vanguard 1
1959 January 2		First lunar spacecraft (fly-by) First rocket engine restart in Earth orbit First spacecraft to leave Earth's orbit First spacecraft on an escape trajectory from Earth	Luna 1
1959 January 4		First spacecraft in heliocentric orbit	Luna 1
1959 February 28		First satellite in a polar orbit	Discoverer 1
1959 August 7		First photograph of Earth from orbit	Explorer 6
1959 September 14		First hard landing on another celestial body (the Moon)	Luna 2
1959 October 7		First three-axis stabilised spacecraft First photos of far side of the Moon, covering 70% of the surface invisible from Earth First automated on board development of photographic film and conversion to radio signals First gravity assist ('sling shot'), returning the spacecraft to Earth to retrieve the photos	Luna 3

Date	Country	Achievement	Mission / Vehicle
1960 August 11		First satellite recovered intact from orbit	Discoverer 13
1960 August 18		First spy photography from space First aerial recovery of an object (the film) returning from Earth orbit	Discoverer 14
1960 August 19		First animals and plants returned alive from space (the dogs Belka and Strelka) First capsule recovered from orbit	Korabl-Sputnik 2 (aka Sputnik 5)
1961 January 31		First great ape or Hominidae in space, Ham, a chimpanzee	Mercury-Redstone 2
1961 February 12	a.	First launch from Earth orbit of upper stage into a heliocentric orbit First mid-course corrections First spin-stabilisation	Venera 1





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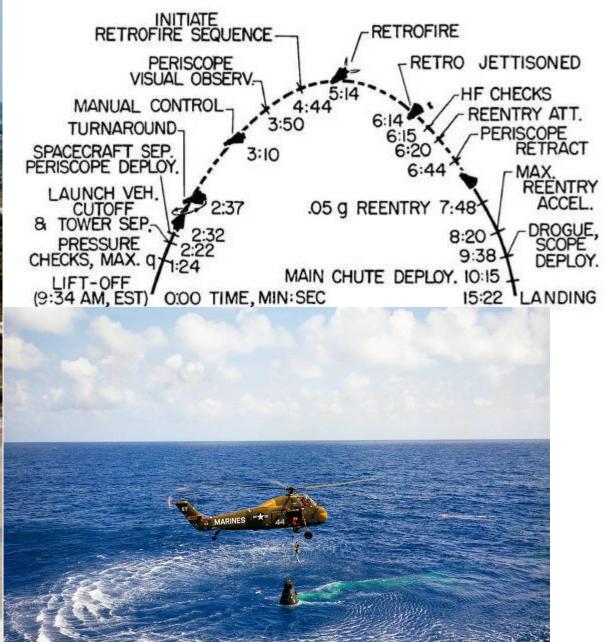






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1961 April 12	à	First human spaceflight mission (Yuri Gagarin) ^[2] First orbital flight of a manned vehicle	Vostok 1
1961 May 5		First pilot-controlled space flight (Alan Shepard)	Freedom 7





















GLENN SHOT INTO SPACE ON EARTH ORBIT FLIGHT

Cook Held Dead Set Rated In Davis Top Contender in Murder **Bowie Feature** Ekin Confinition

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, his wife Annie, and Vice President Johnson attend a ticker tape parade on March 1, 1962 in



Mercury astronaut John Glenn and his wife, Annie, ride in the back of an open car with Vice-President Johnson during a parade in Glenn's honor in Washington. – Feb 26 1962

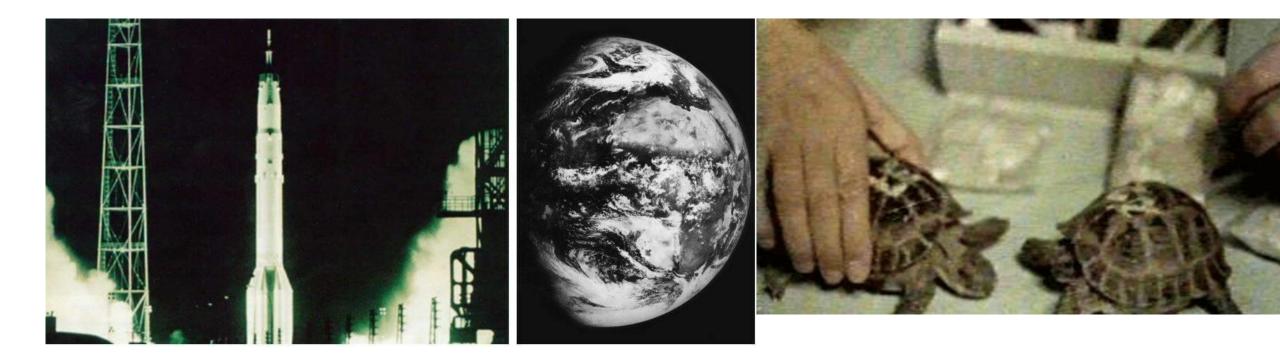


stronaut John Glenn, left, sitting on back of car, is greeted by admirers as his car passes under a "Well Done John" banner in Cocoa Beach, Fla., Glenn's wife Annie, center, dressed in red, and Vice President Lyndon Johnson are in the car with him – 23 Feb 1962

1961 May 19	*	First planetary flyby (Venus), although contact was lost	Venera 1
1961 August 6		First crewed mission lasting a full day (Gherman Titov).	Vostok 2
1962 August 12		First dual crewed spaceflight (Andriyan Nikolayev and Pavel Popovich) First spacecraft-to-spacecraft radio contact First simultaneous flight of crewed spacecraft. First person to float freely in microgravity.	Vostok 3 / Vostok 4
1962 December 14		First successful planetary flyby mission (Venus).	Mariner 2
1963 June 16		First woman in space (Valentina Tereshkova) First civilian in space	Vostok 6
1963 June 19	*	First Mars flyby, although contact was lost	Mars 1
1963 July 19		First reusable piloted spacecraft and the first spaceplane (suborbital)	X-15 Flight 90
1963 July 26		First geosynchronous satellite	Syncom 2
1964 August 19		First geostationary satellite	Syncom 3
1965 March 18		First extra-vehicular activity ("space walk")	Voskhod 2
1965 March 23		First piloted spacecraft orbit change	Gemini 3
1965 July 14		First successful Mars flyby mission	Mariner 4
1965 December 15		First rendezvous of manned spacecraft	Gemini 6A & Gemini 7
1966 February 3		First soft landing on another celestial body (the Moon) First photos from another celestial body	Luna 9
1966 March 1	*	First hard landing on another planet (Venus)	Venera 3
1966 March 16		First spacecraft docking	Gemini 8 / ATV
	1		

1966 April 3		First artificial satellite to orbit another celestial body (the Moon)	Luna 10
1966 September 12		First direct-ascent (first orbit) rendezvous	Gemini 11 / ATV
1967 October 18		First in situ analysis of the atmosphere of another planet (Venus)	Venera 4
1967 October 30	•	First docking of two remote-controlled spacecraft	Cosmos 186 / Cosmos 188
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1968 September 14–21	à	First return to Earth after circling the Moon First life forms to circle the Moon (returned safely)	Zond 5
1968 December 21		First return to Earth after orbiting the Moon First human spaceflight mission to enter the gravitational influence of another celestial body	Apollo 8







1966 September 12Image: September 12First direct-ascent (first orbit) rendezvousGemini 11 / ATV1967 October 18Image: September (Venus)First in situ analysis of the atmosphere of another planet (Venus)Venera 41967 October 30Image: September First docking of two remote-controlled spacecraftCosmos 186 / Cosmos 1861968 September 14-21Image: September First return to Earth after circling the Moon First life forms to circle the Moon (returned safely)Zond 51968 December 21Image: September First human spaceflight mission to enter the gravitational influence of another celestial bodyApollo 81969 JanuaryImage: September First crew exchange in space First docking of two manned spacecraftSoyuz 4 / Soyuz 5	1966 April 3		First artificial satellite to orbit another celestial body (the Moon)	Luna 10
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objuz o	1969 January 16	<u>.</u>	First crew exchange in space First docking of two manned spacecraft	Soyuz 4 / Soyuz 5
1969 July 20 First humans on the Moon Apollo 11 First space launch from another celestial body First sample return from the Moon	1969 July 20		First space launch from another celestial body	Apollo 11









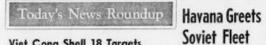






Vol. 42, No. 308 14 Pages, 2 Sections 10 Cente





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Moon Mission As It Happens Pube Sparings, Collifornia Manday, July 21, 7869

The World Sees Apollo:

'Too Much!' No Called Wrees International

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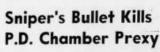
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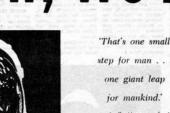




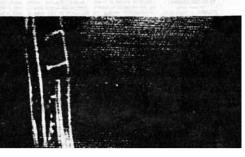
ST. PETERSBURG, FLORIDA, MONDAY, JULY 21, 1969







one giant leap - Apollo 11 commander Neil Armstrong's first words after set-





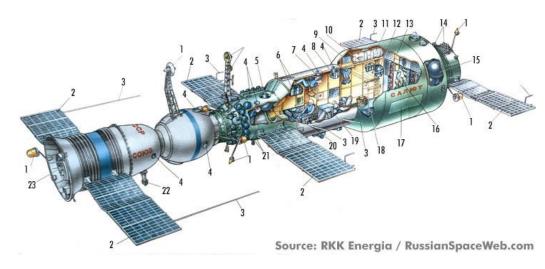


This Pan Am "First Moon Flights" Club card, number 1043, was issued by the airline to Jeffrey Gates in the late 1960s. Gates acquired the card (as well as reservations for himself and his wife-of-the-future) when he was 20 years old.

Between 1968 and 1971, Pan Am issued over 93,000 "First Moon Flights" Club cards to space enthusiasts eager to make a reservation for the first commercial flight to the Moon. Issued at no cost to the reserver, the cards were numbered in the order they were issued. The Club originated from a waiting list that is said to have started in 1964, when Gerhard Pistor, an Austrian journalist, went to a Viennese travel agency requesting a flight to the Moon. The agency forwarded his request to Pan Am, which accepted the reservation two weeks later and replied that the first flight was expected to depart in 2000.



Date	Country	Achievement	Mission / Vehicle	
1970 September 24	×	First robotic automatic sample return from another celestial body (the Moon)	Luna 16	
1970 November 23	*	First lunar rover (remote-controlled) and first rover on another celestial body (the Moon)	Lunokhod 1	
1970 December 15	*	First soft landing on another planet (Venus) First signals from another planet	Venera 7	
1971 April 19		First human-crewed space station launched	Salyut 1	
1971 June 29		First human-crewed orbital observatory (Orion 1)	Soyuz 11 / Salyut 1	
1971 July 31		First human-driven lunar rover, the Lunar Roving Vehicle	Apollo 15	
1971 November 14		First spacecraft to orbit another planet (Mars)	Mariner 9	
1971 November 27	×.	First hard landing on Mars	Mars 2	
1971 December 2	*	First soft Mars landing First signals from Mars surface	Mars 3	
1972 March 3		First spacecraft sent on escape trajectory away from the Sun	Pioneer 10	
1972 July 15		First mission to enter the asteroid belt and leave inner Solar System	Pioneer 10	
1973 December 3		First Jupiter flyby	Pioneer 10	
1974 March 29		First Mercury flyby	Mariner 10	
1975 July 15		First multinational human-crewed mission ^[a]	Soyuz 19 Apollo–Soyuz Test Project	





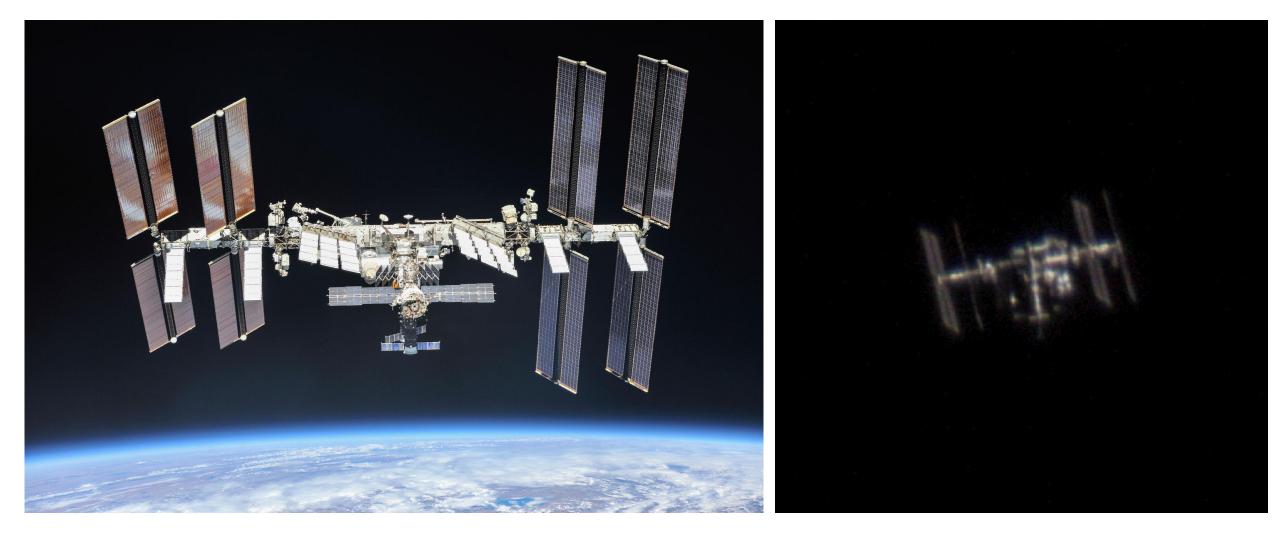
1975 October 20	2	First spacecraft to orbit another planet (Venus) (the orbiter) First view and clear photograph from and of the surface of another planet (the lander)	Venera 9
1979 September 1		First Saturn flyby	Pioneer 11

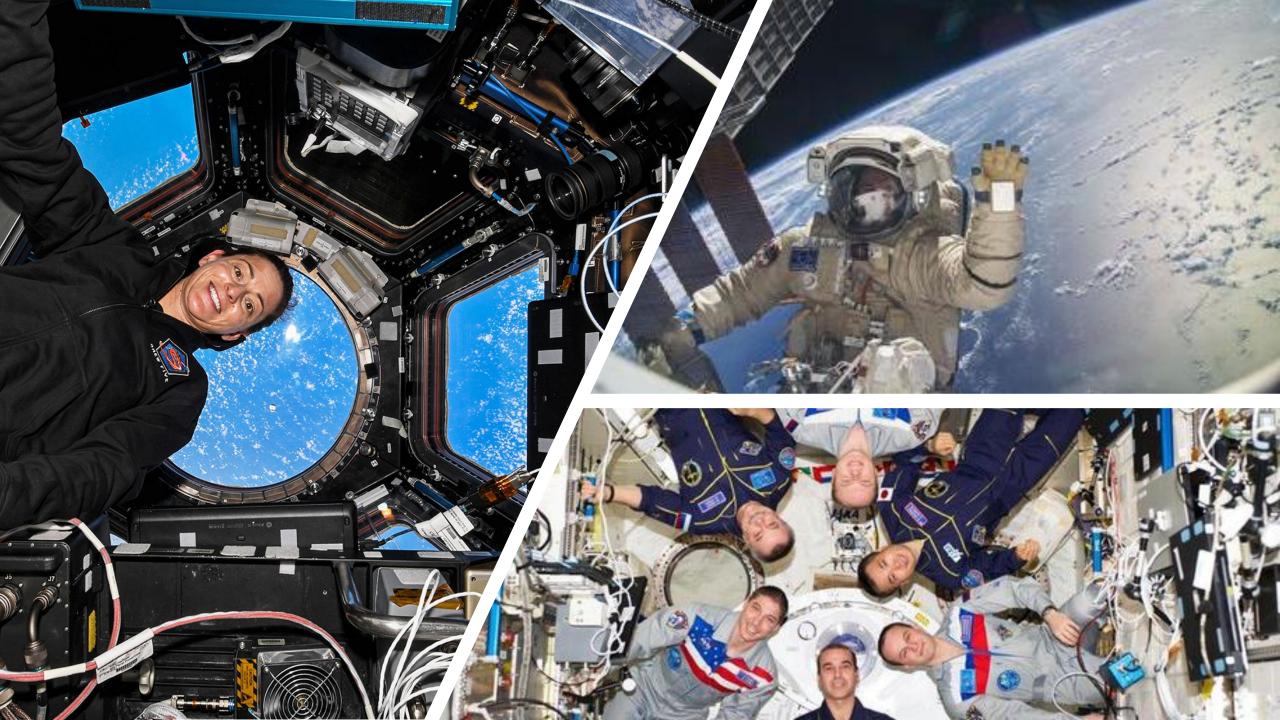
1980-1989 [edit]

Date	Country	Achievement	Mission / Veh
1981 April 12		First spaceplane in orbit, the Space Shuttle (test flight)	STS-1
	Invisional Anti-	ted States	



Exciting Things Are Happening in Space Everyday





Exciting Things In Our Future







"You want to wake up in the morning and think the future is going to be great - and that's what being a spacefaring civilization is all about. It's about believing in the future and thinking that the future will be better than the past. And I can't think of anything more exciting than going out there and being among the stars."

-Elon Musk

Countdown to the Moon and HEO HERO

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Douglas Loverro @DouglasL NASA isn't just Astronauts! John Stumpf, who's been her and he is our HEO HErO for d





Douglas Loverro @D Attorneys make a dif Attorney Allison Gen efforts has made our



Douglas Loverro @DouglasLoverro · Jan 10, 2020 What's amazing about the people at @NASA is that they love new challenges! 🚀 Today's HEO HErO is Jonathan Krezel, who does policy, budget, engineering and anything else we throw at him. That's why he's our hero for day 1817.



Countdown to the Moon

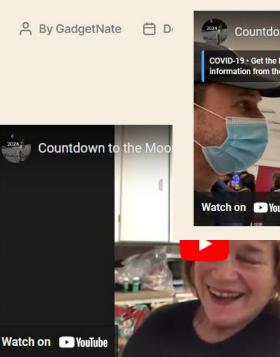
1840 – Shannon (Pooja) Bhatia

😤 By GadgetNate 📋 December 17, 2019 🗘 1



The Artemis Program will land the first woman and the the moon by the end of 2024. Each day I plan to talk to person about the moon landing. What do they know? W think about it? What gets them excited? My first intervie Pooja Bhatia, my niece, who is visiting for the holidays. \$ aware of the program, but she is excited and glad it is ha

146



December 31, 2021 No Comments

738 – Sandra

A By GadgetNate

Countdown to th

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1096 – Iñaki

8 By GadgetNate

420 - Angel

🐣 By GadgetNate 📋 November 10, 2023 📮 No Comments



Things I've Learned

- Only about 20% of people know we are going back to the moon
- Most people are excited about it (and wonder why they didn't know about it)
- Many want to know what we hope to accomplish
- A few see humans travelling the stars
- Most people would take a trip to space if they could

Four things we should teach our kids to make the future even more exciting!

- 1) Space is happening Now!! There have been people in space every day of your life
- 2) Space Exploration is getting Bigger! People will walk on the moon before you graduate from College
- 3) Multi-planetary in your lifetime Humans will live on Mars in your lifetime
- 4) We Need you! You can participate in it in many ways.