

Space Race

Our timeline so far...

- September 1939** - **WW2 starts in Europe**
- May 1945** - **WW2 ends in Europe**
- 4 October 1957** - **Sputnik 1 launched**
- 3 November 1957** - **Sputnik 2 launched with Laika on board**
- 6 December 1957** - **Vanguard TV3 fails**
- 4 January 1958** - **Sputnik 1 crashes back to Earth**
- 31 January 1958** - **Explorer 1 launches successfully**
- 12 April 1961** - **Yuri Gagarin becomes the first human in space**
- 5 May 1961** - **Alan Shepard becomes the first American in space**
- 25 May 1961** - **JFK starts the race to the moon**
- 16 June 1963** - **Valentina Tereshkova becomes the first woman in space**
- 22 November 1963** - **JFK assassinated.**

Round 1

First Satellite



Round 2

First Living Thing in Space



Round 3

First Human in Space



Round 4

First Woman in Space



Ding Ding...

ROUND 5

ALEXEY LEONOV



Alexey Leonov was the first person to walk in space!

He was outside his spacecraft for 12 minutes on 18 March 1965, connected by a 5 metre long chord.

However, the mission nearly ended in disaster when his spacesuit expanded so much that he couldn't fit back through the door.

He had to open a valve to let some of the pressure out so he could squeeze back into the spacecraft.



We choose the moon!

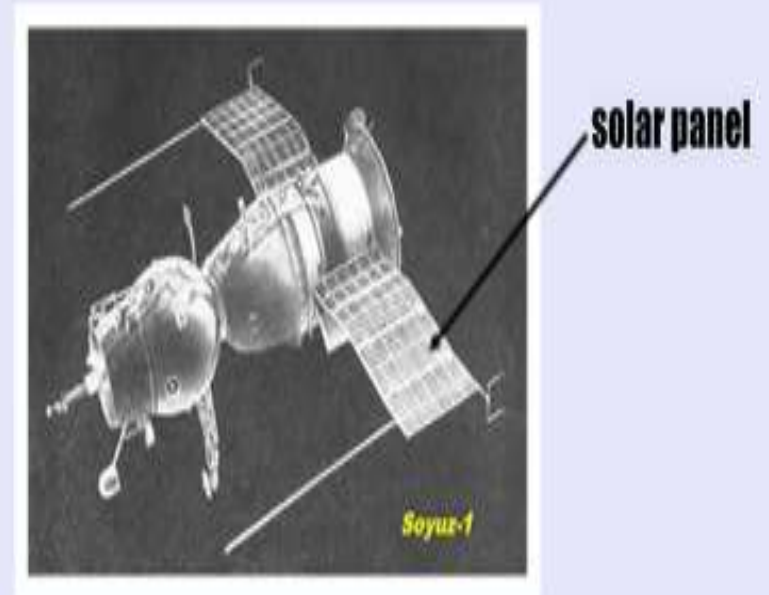
Things start to go wrong for the USSR.

**Engineers wanted to send unmanned test flights but the government said NO!
So Soyuz 1 was launched on 23 April 1967 carrying cosmonaut Vladimir Komarov.**



**Komarov knew that the mission was rushed and dangerous but
if he refused, his friend Yuri Gagarin would have to go instead.**

**After it is launched, one of Soyuz's solar panels fails to unfold.
Consequently, the space ship loses half of its electrical power.**



Communications with mission control start to break down and some of Soyuz's systems fail.

Soyuz 1 re-enters the Earth's atmosphere but during the descent, the parachute fails to deploy and the spacecraft crashes into a field at 400mph

Then the USA do this...

Apollo 8 becomes the first manned space craft to orbit the moon!



The three-man crew Frank Borman, James Lovell, and William Anders became the first humans to travel beyond low Earth orbit, the first to see Earth as a whole planet, and then the first to directly see the far side of the moon.



Surveyor

Before sending humans to the moon, the USA sent seven robotic spacecraft.

Five of them landed successfully but two of them failed (one crash landed and the other lost contact).

All seven spacecraft are still on the moon!

Let's meet the crew of Apollo 11...

Neil Armstrong

Michael Collins

'Buzz' Aldrin



What country are these men from? How do you know?



Launch

16 July 1969

http://www.youtube.com/watch?v=0Z5t84Ktt_k&feature=related

The Eagle has landed!



During the descent, Neil Armstrong looked out of the lunar module and saw that he was heading for a dangerous area of rocks and boulders. He had to change direction so they could land safely. When the Eagle touched down, it only had 25 seconds worth of fuel left!

Neil and Buzz spent about 3 hours exploring the Moon. They had to learn as much as they could. They even tried out different ways of moving. Buzz tried kangaroo hopping to see if that was easier than walking!

"That's one small step for man...



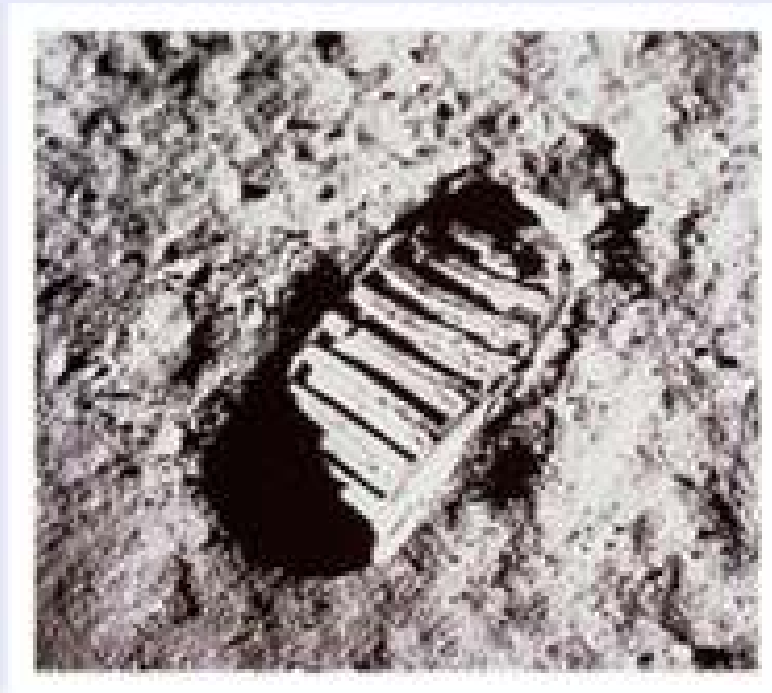
...one giant leap for mankind.

Instead of seeing the Moon at night...

...the astronauts saw the Earth rising!



There is no air, wind or rain on the Moon.



**Consequently, nothing blows the flag or disturbs the footprints.
They are still there, just as Neil and Buzz left them!**

President Nixon



Neil Armstrong

What do you think the president said to Armstrong?

LO: To understand the significance of the first moon landing.

Choose one of the following activities to complete about man first landing on the moon.

- Write a fact file about one of the crew of Apollo 11
- Imagine and record what you think was said between the President and Neil Armstrong during that legendary phone call
- Explain who you think won the Space race (USSR or USA) and why.
- The moon landing broke the record for biggest TV audience. Write down a script on what you think a TV presenter would say about the Moon landing.