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Mars one day?

by NASA and became an astronaut in program for the next few years. Will this in 1968. In May 1980, he was selected responsible for America's space from the United States Naval Academy permanent basis. He will be the man a second lieutenant after graduating African American to head NASA on a South Carolina. As a US Marine, he was July 2009 he was appointed as the first

to be the head of NASA. Charles was 500 times. Later, he left NASA and Marine and astronaut Charles F Bolden space and has orbited the Earth nearly Obama, has appointed a former US missions, he spent over 20 days in NASA lately? The US President, Barack experience as an astronaut. In four Have you heard about the changes in Obama chose him because of his

be the man who will send humans to

re-joined the US Marine Corps. On 19

# **TN32355**

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superstitious people out there. However in Mission Control!" James A. Lovell, "13", a very unlucky number for some "I'm told the cheer of the year went up

neighbours. They were the inspiration, astronaut and so were most of our inspired him to become an astronaut his interview we asked him what had at the time he was only 9 years old. In Richard Garriott was one of them and astronauts were still very young. Back in the 1970s our five British-born

along with the legacy of Apollo."

Dack. Earth, the astronauts safely made it engineers and scientists back here on thanks to the work of over one thousand were almost lost in space forever, but and he said: "My Dad was an point where the lives of three astronauts landing to be aborted. There came a mission explosion forced the lunar April 11 1970 at 13:13 CST, but a midthe moon. The mission was launched on no bnal ot bebnetni ASAN vd noizzim all. Apollo 13 was the third manned for NASA it turned out to be lucky after the commander told us.

### 520 Days

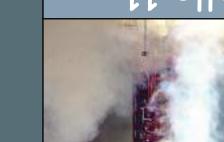
space on board the Mir and the International Space Station. ctually logged a total of 803 days, 9 hours and 39 minutes in nind cope with the journey? Sergei Kirkalev (pictured left) takes 520 days to get to Mars and back, but can the human

and engineering to allow it to happen. sy to move around the surface as gra



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housands of people and advances in science Only a small number of people have landed on the Moon but it has taken thousands and on the Moon but it has taken thousands and hmerican) have since visited the Moon and noon in the Eagle space craft and went down



## Survival guide to space

do you need during your journey in space? would be truly amazing. In some ways camping on Earth is similar to life out in space. What extraordinary? Sleeping whilst you are surrounded by stars and many fascinating planets Imagine that your sleepover with friends is set inside a spacecraft - wouldn't that be

.1891

born on 19 August, 1946 in Columbia,

AZAN to WSN

#### Food, water, oxygen and exercise:

need to remember to keep exercising – this stops your muscles and bones wasting away. as well as an oxygen tank to allow you to breathe in your spacecraft or spacesuit. Finally, you Each day you would need plenty of food (3kg) and water (3.4 litres) to keep you fit and active

#### Light & Electricity

important - plus, air-conditioning, instruments and the engines all need power. Parts of the spacecraft may be dark and dull, so brightening places up with lighting would be

#### Shelter & First aid

pe very handy. from the deadly vacuum of space. In case any of the astronauts get hurt, a first aid kit would Body protection is a major need in space as the space-suit and spacecraft will protect you

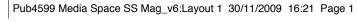
#### telioT

Where does all the waste go?

 Liquid waste is ejected out of the spacecraft into space Solid waste goes into a cylindrical container which is then dried out

#### Inemnistreta

'(sdo1-6uinnigs). consoles, DVDs, laptops, books and even some zero-gravity games (like magnets and Don't let boredom get in the way of the spectacular space journey so bring along games





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Name: Richard Garriott Age: 48 Date of Birth: 4 July 1961 Place of Birth: Cambridge Nationality: British/American **Occupation: Games Designer** Missions: 1 - 12 – 24 October 2008 on the International Space Station

### **Richard Garriott** (AKA Lord British)

#### Did you always want to be an astronaut? Yes, I grew up in an astronaut community. My

Dad was an astronaut and so were most of our neighbours.

#### What inspired you to become an astronaut?

My parents, neighbours and school teachers were the inspiration along with the legacy of Apollo. My greatest inspirations came from my teachers at school; especially my drama available to all people; but whether you teachers and the teachers who let me take computer programming as my language option.

#### What brought you to the path you are on today?

Well, I guess you could say my work as a computer games designer was key... that and my interest in science and exploration.

#### If I want to become an astronaut. what advice would you give me?

Keep hold of your dreams. You need to stick with things. Opportunities regularly become recognise it or pursue it is the difference. If one route doesn't work, bide your time and find another strategy.

# Space For Young Explorers

## What is the future of space travel?

Past, present, future... Your survival guide to space **New at NASA Holidays in space** 

### Space Holidays

Ever wanted to be an astronaut? A lifelong ambition could soon be fulfilled. A rocket powered plane allowing tourists to experience space should start flying in two years. Sharing the characteristics of a jet aircraft, the six passenger 'space-taxi' will soon be flying 62 miles (100 km) above Earth. It will take off and land on runways. Virgin Galactic's development known as "SpaceShipTwo" will allow anyone to experience space. Better save your pocket money though, because the ticket price is £130,000, and tickets are selling fast!

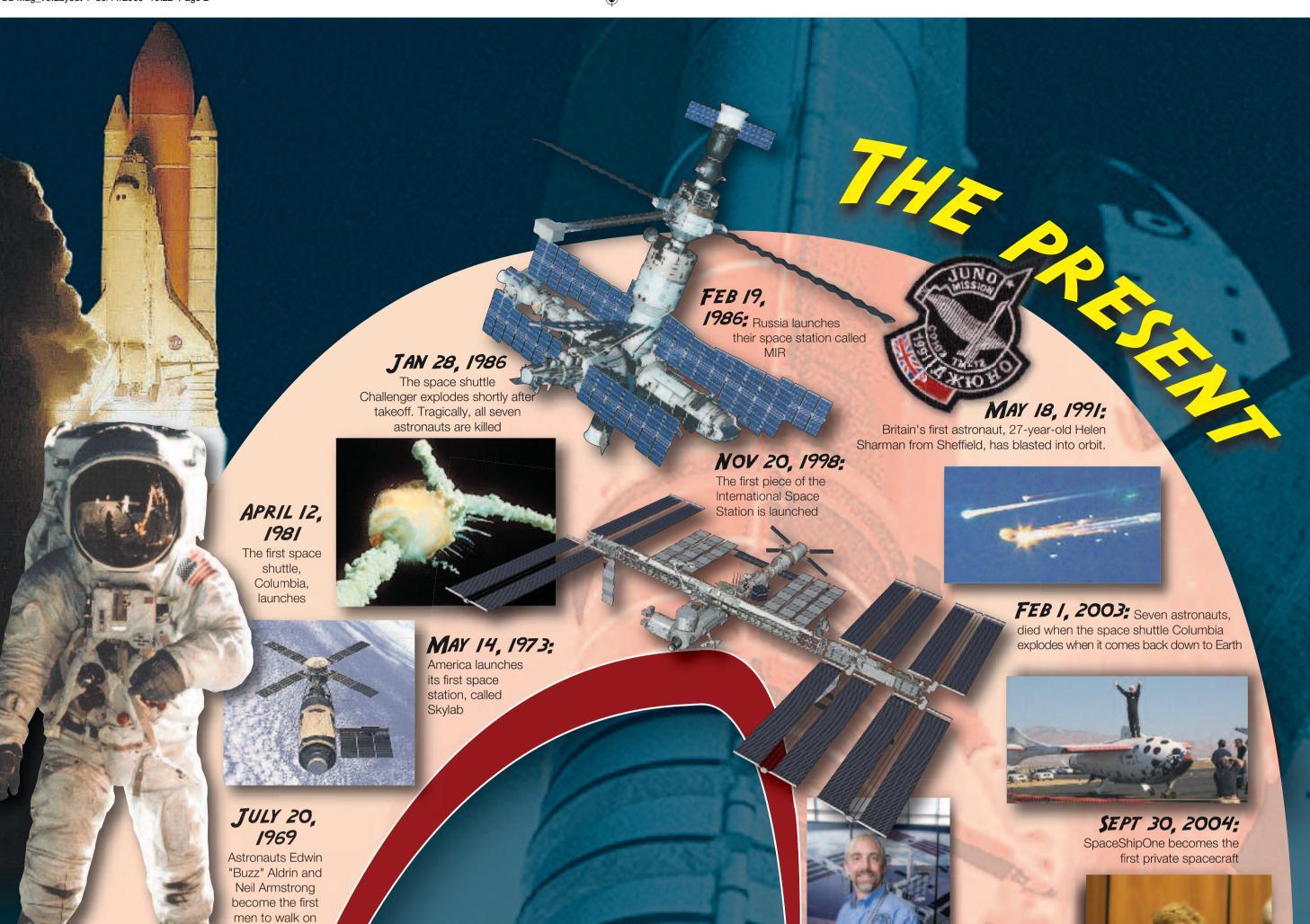
Up until now the high cost of each spaceflight, around £20 million for each person, means that only around 500 people over a period of 50 years have been able to experience space. This could soon change as entrepreneurs such as Richard Garriott, a self funded space tourist who paid for himself to go into space, become active. He was the second person to raise the British flag in orbit, after Helen Sharman in 1991 and he aims to make it cheaper by investing in spaceplanes so that accessibility into space will be easier.

Queen Mary, University of London Mile End Road London E1 4NS Queen Mary THE IDEAS



Written and designed by students from Morpeth and Stepney Green Schools taking part in the 2009 Media Space Summer





MAY 5, 1961 Alan Shepard becomes the first American in space

the moon



We've left some of the poster blank for you to fill in current or future space stories. There a couple of suggested topics for

**OCT 12, 2008;** Richard Garriott – First British Private Space Participant

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APRIL 12, 1961

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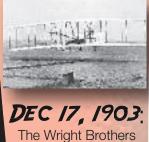
Russian cosmonaut Yuri Gagarin becomes the first human in space



**XOV 3, 1957** Sputnik II launch: Dog called Laika first animal in space. Unfortunately, she died on her mission

OCT 4, 1957:

Sputnik I launch: Soviet Union put first man-made satellite in space



nake the first manned flight you to research but the others are left up to you!

Who's in space right now? When is the next Space Shuttle launch?



#### MAY 2I 2009; British astronaut-trainee Tim Peake joins ESA

**20/0** British-born astronauts Piers Sellers and Nick Patrick scheduled for missions of the Space Shuttle

THE FUTURE?

What's happening at the International Space Station? What is their mission?