

Astronaut	a person who is trained to travel in a spacecraft.
Cosmonaut	a Russian astronaut.
Taikonaut	a Chinese astronaut.
Moon	the natural satellite of Earth, usually visible at night by reflecting light from the sun.
Satellite	an object in orbit round Earth, a moon or another planet.
Rocket	an object propelled to a great height or distance
Thrust	a push force used to describe how strongly an engine pushes a vehicle.
Crater	a large bowl shaped cavity in the ground or on a celestial object.
Freeze drying	preserve something by rapidly freezing it.
Thermo-stabilise	applying heat to destroy organisms.
Water cooling	cooling by running cold water around.
Airtight	not allowing air to escape or pass through.
Ultraviolet	a part of light that is not visible by the human eye.
Space race	the race taken between different countries to get into space.
Orbit	a regular, repeating path that and an object in space takes around another one.
Sun	the star around which earth orbits.
Axis	an imaginary line about which a body rotates
Lunar	originating from the Latin - luna - meaning moon.

Key facts:

- The Earth has only one Moon.
- Our Moon is the fifth largest moon in the Solar System.
- The Moon has craters which were formed by the impact of meteorites many years ago.
- Both sides of the Moon receive the same amount of light from the Sun.
- The same side of the Moon always faces towards us, so we see one side. In fact, you can see just over half the Moon - 51%.
- The Earth only has one Moon. Many of the other planets have more than one.
- The large rocks in space are called asteroids, smaller rocks in space are called meteorites.
- A small number of people have actually walked on the Moon.
- People still travel into space but it doesn't get reported in the papers like it used to.
- To date nobody has been to another planet. They might one day!
- The first animal in space was a monkey called Albert II on the 14th June 1949.
- The first animal to make a complete orbit of the Earth was Laika, a Russian dog, on November 3rd 1957. She was found wandering the streets of Moscow and died from overheating in the space capsule.
- As of January 2015, 537 people have been into space.



Each of these foods are not suitable to eat in space. Here are the reasons why.

- Banana: not suitable because it will rot in a couple of days.
- Fizzy drinks: not suitable because if you drink them they will make you sick.
- A sandwich: not suitable because the crumbs will float into the cabin and block the machinery.

Freeze dried food in a sealed container is often eaten by people travelling in space. They are hydrated with water so it can be eaten.

Famous Cosmonauts

Yuri Gagarin

- Yuri was the first man in space.
- Just before his space craft took off he said, "Here we go".
- He orbited the Earth once on 12th April 1961.
- His space craft was called Vostok 1.



Valentina Tereskova

- Valentina was the first woman in space.
- She was Russian.
- She orbited the Earth on 16th June 1963.
- Her space craft was called Vostok 6.



Famous Taikonaut

Yang Lewei

- Yang was the first person from China to go into space.
- He flew on October 15th, 2003 aboard the Shenzhou 5 spacecraft.
- As he started his eighth orbit of the Earth he said, "I feel very good, don't worry".

Famous Astronauts

Alan Shepard

- Alexey was the first American in space.
- He did this on 6th May 1961.
- His space craft was called Freedom 7.
- He landed in the Ocean.



Neil Armstrong and Buzz Aldrin

- These Americans were the first people to walk on the Moon.
- They landed on July 20th, 1969, at 20:18
- Neil said, "One small step for man, one giant leap for mankind".



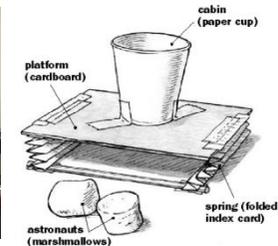
Lunar near side Lunar far side Lunar North Pole Lunar South Pole

Amazingly we only see one side of the Moon. As Earth rotates on its axis. The far side of the moon has more craters.

Moon Landings



A Moon lander has to slow down as it approaches the Moon and land safely. The legs on a Moon lander have shock absorbers to help soften the lander. They are like the ones used in cars.



than the near side because Earth protects the moon from craters hitting the near side.

Quiz

Question 1

What is the name given to a large bowl shaped cavity in the ground of an orbital body?

- A. A meteorite
- B. A crater
- C. An asteroid
- D. A satellite

Question 2

What name is given to a Russian astronaut?

- A. Astronaut
- B. Taikonaut
- C. Cosmonaut
- D. Ultraviolet

Question 3

Who was the first person from China to go to space?

- A. Yuri Gagarin
- B. Valentina Tereskova
- C. Alan Shepard
- D. Yang Lewei

Question 4

Which side of the moon has the biggest amount of craters?

- A. Lunar near side
- B. Lunar far side
- C. Lunar North Pole
- D. Lunar South Pole

Question 5

Who said "It's one small step for man, one giant leap for mankind"?

- A. Alan Shepard
- B. Yang Lewei
- C. Neil Armstrong
- D. Buzz Aldrin

Question 6

Which of these foods would be suitable for eating in space?

- A. Coca Cola
- B. A jam sandwich
- C. Freeze dried foods in a sealed container
- D. Bananas and cream.