

Powerful Knowledge

Glossary

Term	Definition
Space	A zone above and around our planet, there is no air to breathe .
Moon	A natural satellite of the earth, visible at night by reflected light from the sun.
Sun	The sun is a hot star at the center of the solar system.
Day	A twenty-four hour period, from one midnight to the next, corresponding to a rotation of the earth on its axis .
Night	The period from sunset to sunrise in each twenty-four hours .
Rocket/Shuttle	A space vehicle that can burn its fuel to travel at high speeds to space.
Astronaut	People who travel into space.
Star	A fixed point in the night sky.
Solar System	The collection of eight planets and their moons in orbit round the sun .
Gravity	Aa force that pulls towards the centre of the Earth.

Space Travel



You can travel to space in a rocket.
If you travel to space you are called an astronaut
It is extremely expensive to travel to space
Astronauts can only take certain foods into space

Moon



The first name on the moon was Neil Armstrong
The Moon is much smaller than the Earth
The Moon has no Gravity

Earth



Earth is the only planet that had a liquid water on its surface
The Earth orbits the sun
We live on Earth

Mercury



Mercury is the closest planet to the sun
Mercury can be seen from the Earth
Mercury is a bit bigger than our moon
Mercury is the smallest planet
A year on mercury is 88 days long
<https://easyscienceforkids.com/all-about-mercury/>

Venus



Venus doesn't have a star
One day on Venus is as long as 117 days on Earth
Similar size to Earth

Mars



Mars has two moons
Sometimes called the red planet
Forth planet from the sun
Mars has seasons like Earth
It has the tallest mountain in the solar system

Jupiter



Jupiter has 50 moons
Four of its moons are the same size as planets
It is the largest planet in our solar system
Jupiter has a rocky core

Saturn



It is surrounds by rings
The rings are made up of millions of ice crytals

Laika

First dog in space



Time Equivalents

60 seconds=1 minute
60 minutes=1 hour
24 hours=1 day
7 days=1 week
52 weeks=1 year
12 months=1 year
365 days=1 year
10 years=1 decade
100 years=1 century



Measures of time

Size of planets



Planet song

<https://www.youtube.com/watch?v=7t099KIWVV5>

Did you know?

1957- 4th October 1957, Russia launched the first satellite into space; Sputnik 1 and the space age had properly begun!

1957 - Russian space dog, Laika, became the first animal to orbit the earth.

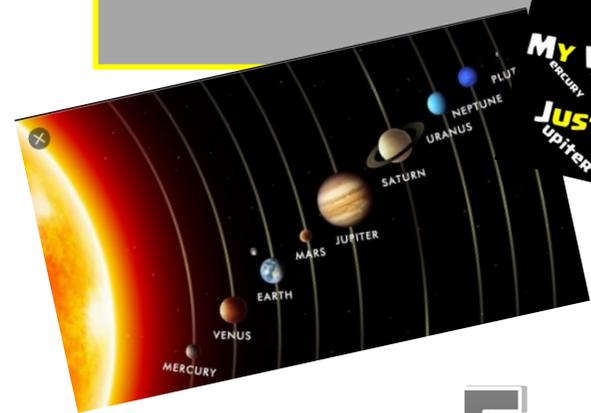
1961 - Russian Cosmonaut, Yuri Gagarin, became the first man in space.

1969 - First men on the moon. Neil Armstrong and Buzz Aldrin.

1989—Helen Sharman—first British astronaut in space.

2016 – Tim Peake (British), first British person to visit the International Space Station

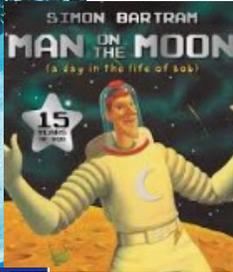
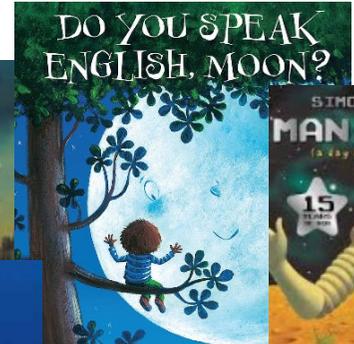
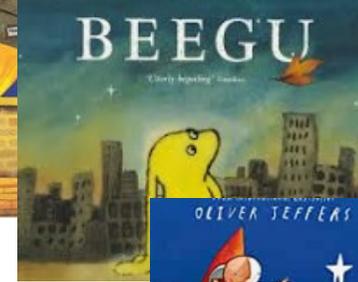
Order of Planets



Whatever Next!

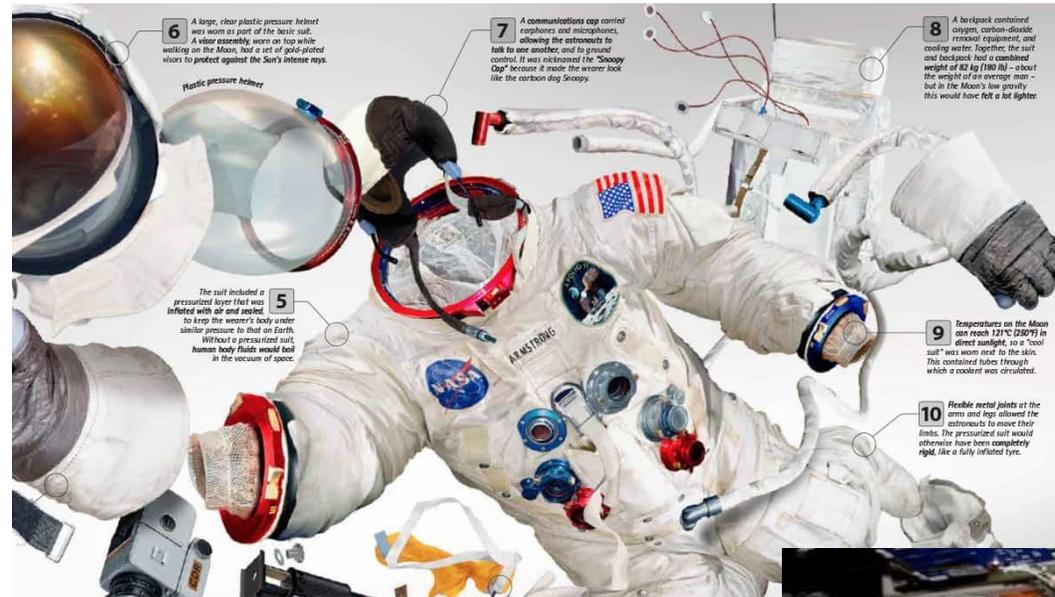


Key Texts



Space Suit

Explorers Space



Living in space

<https://www.bing.com/videos/search?q=hair+washing+in+space+video&view=detail&mid=D7F868C4A65D4BB2F237D7F868C4A65D4BB2F237&FORM=VIRE>

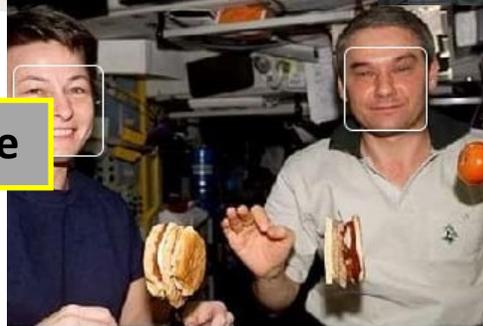


The Arts



Vincent Van Gogh
Starry Night

Food in space



Prior learning

- Rockets and space toys

Current learning

- ◆ How do people travel into space?
- ◆ Who was the first man on the moon?
- ◆ Is it only humans that have been into space?
- ◆ What are the people called that travel into space?
- ◆ How many planets are there?
- ◆ Which planet do we live on?
- ◆ What is the hottest planet?
- ◆ What does gravity mean?
- ◆ How do we get night and day?
- ◆ How long is a day?
- ◆ What do astronauts wear?
- ◆ What do astronauts eat?
- ◆ Which planet is closest to the sun?

Future learning

- Space
- Phases of the moon
- Measures of time



Curricular links:

Use of this document

Reach2 would like to acknowledge that the pictures and information contained in this knowledge organiser have been sourced from a variety of websites and did not produce the original content but did in fact put it together to form a topic overview and support for teachers.

Websites used include (although, this is not an extensive list):

- Google images
- TES
- Twinkl
- <http://www.sciencekids.co.nz/sciencefacts/space/sun.html>
- <https://www.planetsforkids.org/star-sun.html>
- <https://www.youtube.com/watch?v=7t099KIWVVs>
- <http://www.funkidslive.com/wp-content/uploads/2015/03/space-suit-made-of.jpg>
- <https://www.bing.com/videos/search?q=hair+washing+in+space+video&view=detail&mid=D7F868C4A65D4BB2F237D7F868C4A65D4BB2F237&FORM=VIRE>
- <https://www.nasa.gov/kidsclub/index.html>