

## Powerful Knowledge

### Glossary

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



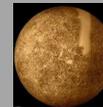
The first name on the moon was Neil Armstrong  
The Moon is much smaller than the Earth  
The Moon has no Gravity

### 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.

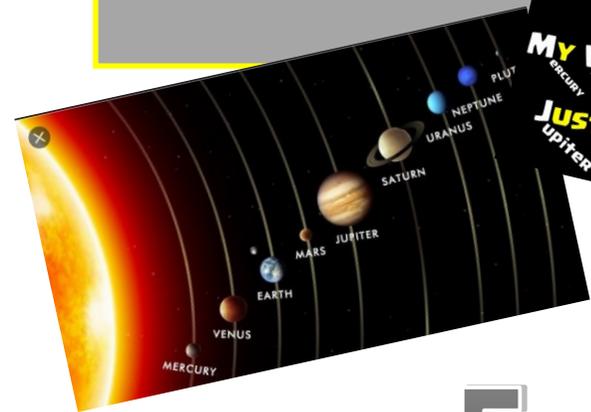
1961 - Russian Cosmonaut, Yuri Gagarin, became the first man in space.

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

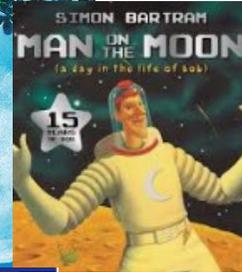
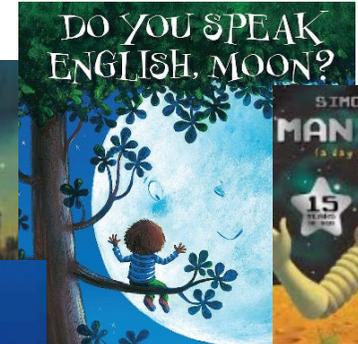
## Order of Planets



## Whatever Next!

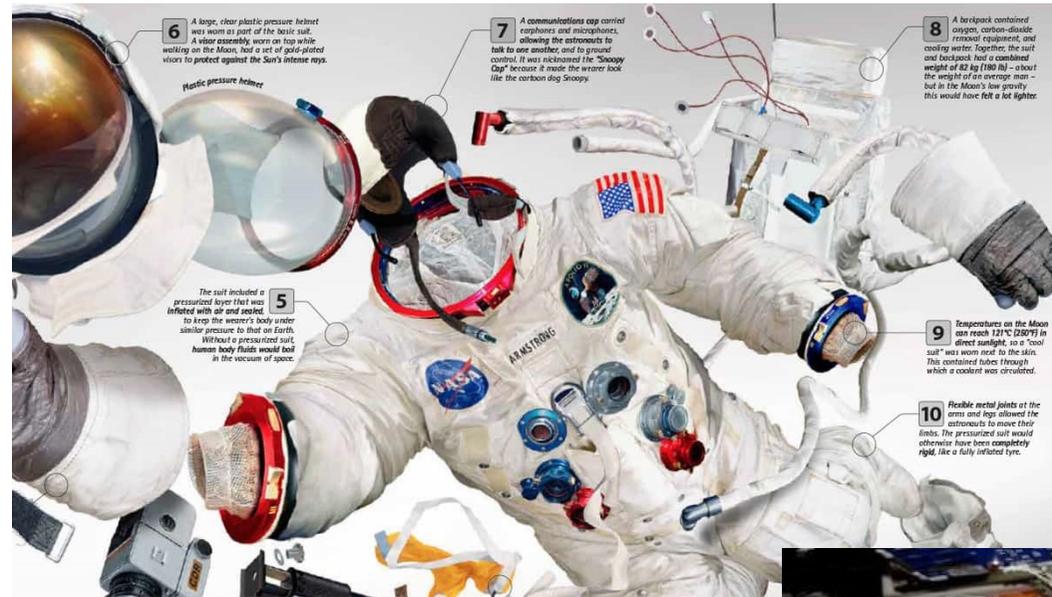


## Key Texts



## 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>

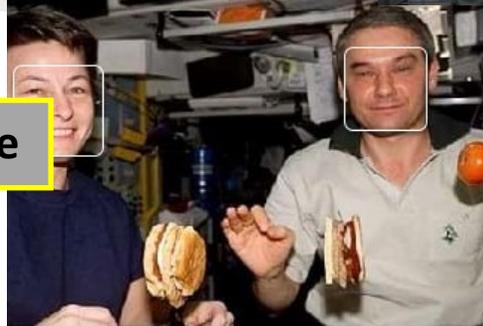


## The Arts



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>