

World Space Week



World Space Week is the largest space event on Earth. Every year, between 4th and 10th October, over 80 countries celebrate space science and technology. This year is the 20th celebration of World Space Week and the theme is 'The Moon: Gateway to the Stars'. The theme focuses on the moon because this year is the 50th anniversary of the first moon landings back in 1969.

Facts about the moon

The Moon does not make its own light. It reflects the light of the Sun.

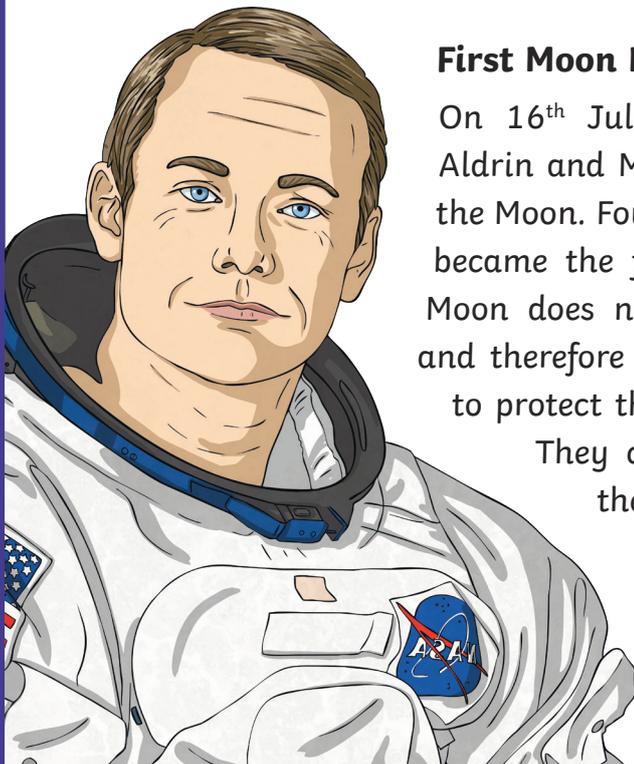
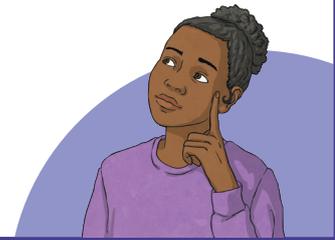
The Moon does not disappear in daytime - it is just harder to see.

The Moon goes around the Earth. This takes 28 days.

We see different parts of the Moon depending on where it is in those 28 days. This is called the 'phases' of the Moon.

The average temperature of the Moon is 107°C in the day and -153°C at night.

The Moon affects the waves in the oceans on Earth.



First Moon Landing

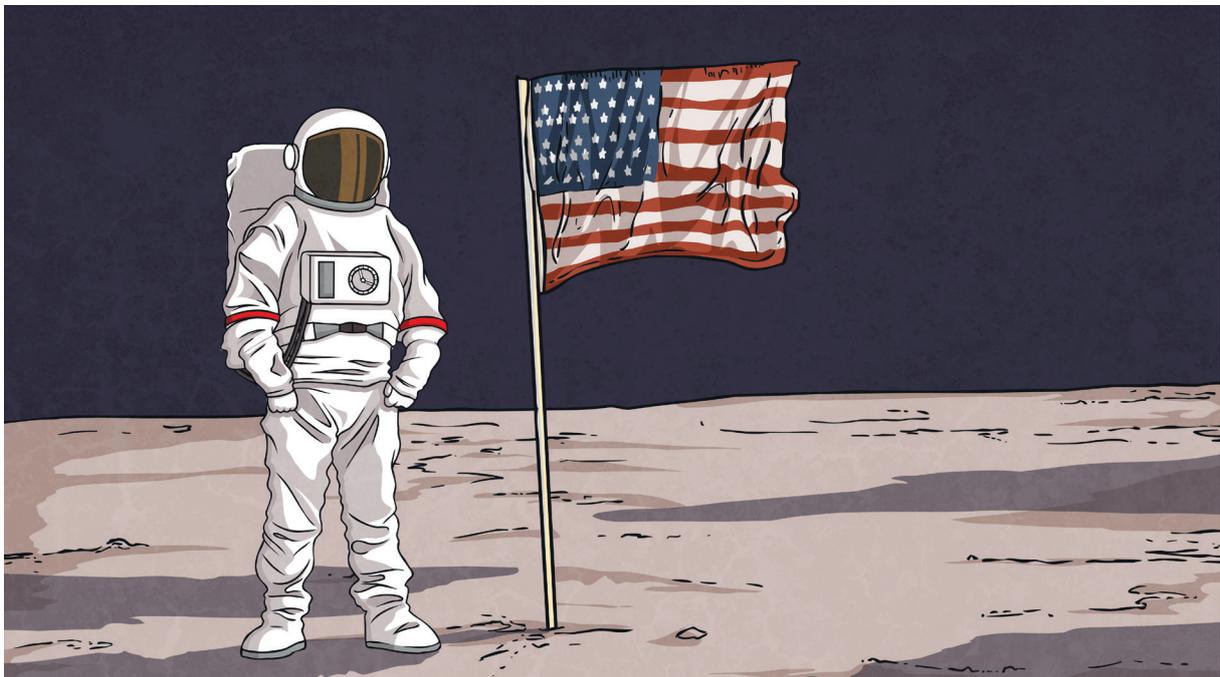
On 16th July 1969, Neil Armstrong, Edwin 'Buzz' Aldrin and Michael Collins set off on their journey to the Moon. Four days later on 20th July, Neil Armstrong became the first man to set foot on the Moon. The Moon does not have an atmosphere like Earth does and therefore he and Aldrin had to wear special suits to protect them from the Moon's difficult conditions.

They carried tanks containing oxygen so that they could breathe. Neil Armstrong and Buzz Aldrin spent three hours walking on the Moon, doing experiments and collecting pieces of rocks and soil.

Before they left, they put an American flag into the ground to mark the fact that the USA were the first country to travel to the Moon. They returned safely back to Earth on 24th July.

Did You Know...?

The footprints and tyre tracks that were made by Armstrong and Aldrin will stay on the Moon forever. This is because there is no wind on the Moon to blow them away!



Questions

1. In what month does World Space Week take place? Tick **one**.

- April
- January
- June
- October

2. What is the World Space Week theme this year?

3. How long does the Moon take to go around the Earth? Tick **one**.

- 28 weeks
- 28 days
- 28 years
- 28 hours

4. What is the average temperature on the Moon at night?

5. When did Neil Armstrong first set foot on the Moon? Tick **one**.

- 16th July 1969
- 24th July 1969
- 20th July 1969
- 1st July 1969

6. What was in the tanks that the astronauts carried? Tick **one**.

- oxygen
- water
- petrol
- an energy drink

7. If you were to travel to the Moon, what would you see on the ground and why? Explain your answer fully.

Answers

1. In what month does World Space Week take place? Tick **one**.

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- January
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The Moon: Gateway to the Stars

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-153°C

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- oxygen**
- water
- petrol
- an energy drink

7. If you were to travel to the Moon, what would you see on the ground and why? Explain your answer fully.

Pupil's own response, such as: If I were to travel to the Moon, I would see Neil Armstrong and Buzz Aldrin's footprints and tyre tracks left from their spacecraft because there is no wind on the Moon so they would not have been blown away.

World Space Week



World Space Week is the largest space event on Earth. Every year, between 4th and 10th October, over 80 countries celebrate space science and technology and the contributions that it has made to life. This year is the 20th celebration of World Space Week and the theme is 'The Moon: Gateway to the Stars'. The theme focuses on the moon because this year is the 50th anniversary of the first moon landings which occurred back in 1969.

Facts about the moon

The Moon does not make its own light. Instead, it reflects the light of the Sun.

The Moon does not disappear in daytime - it is just harder to see because the Sun is so bright.

The Moon goes around (orbits) the Earth. This takes 28 days and is known as a lunar month.

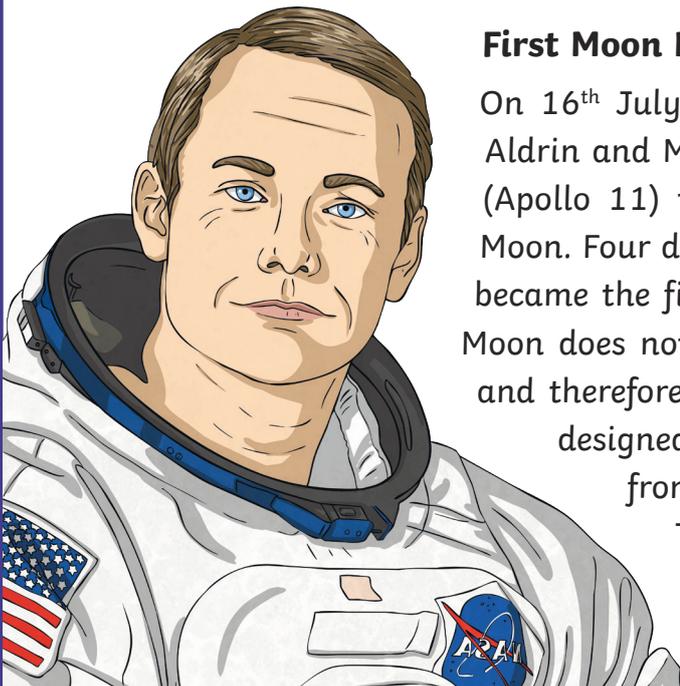
We see different parts of the Moon depending on where it is in its orbit. This is called the 'phases of the Moon'. There are eight phases in total.

The average temperature of the Moon is 107°C in the day and -153°C at night.

The Moon affects the waves in the oceans on Earth.

First Moon Landing

On 16th July 1969, Neil Armstrong, Edwin 'Buzz' Aldrin and Michael Collins set off on their mission (Apollo 11) to be the first people to land on the Moon. Four days later, on 20th July, Neil Armstrong became the first man to set foot on the Moon. The Moon does not have an atmosphere like Earth does and therefore he and Aldrin had to wear specially designed suits (called EMUs) to protect them from the Moon's demanding conditions. They carried tanks containing oxygen so that they could breathe outside of the spacecraft.

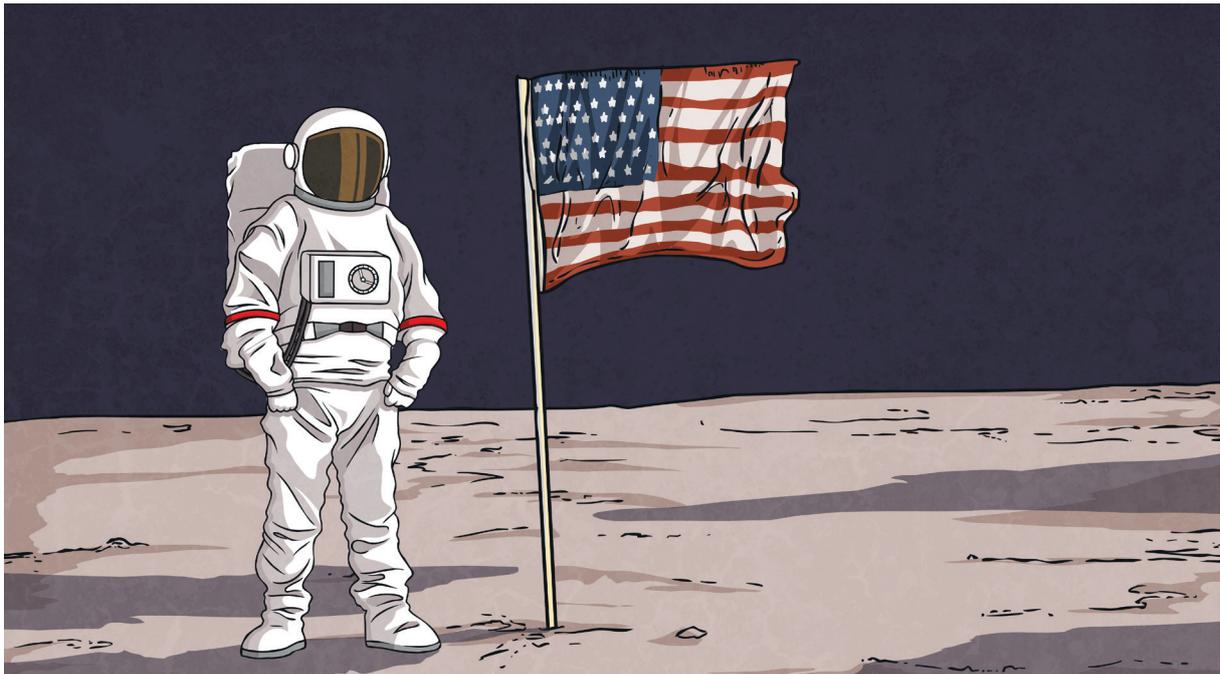


Neil Armstrong and Buzz Aldrin spent three hours walking on the Moon, carrying out experiments and collecting pieces of moon dust, rock and soil to take back to Earth. Before they left, they planted an American flag into the ground to mark the fact that the USA were the first country to travel to the Moon. They returned safely back to Earth on 24th July as heroes.

As he stepped on the Moon, Neil Armstrong famously said, 'That's one small step for man, one giant leap for mankind.'

Did You Know...?

Around 600 million television viewers around the world tuned in to watch the Moon landing.



Questions

1. When is World Space Week celebrated?

2. Explain in your own words why this year's World Space Week theme is so special.

3. How long is a lunar month? Tick **one**.

- 28 weeks
- 28 days
- 28 hours
- 28 years

4. What is the average temperature on the Moon in the daytime? Tick **one**.

- 153°C
- 170°C
- 107°C
- 153°C

5. What is an EMU? Tick **one**.

- a spacecraft
- a planet
- an astronaut's suit
- Moon rock

6. Explain why Armstrong and Aldrin planted a flag on the Moon before returning to Earth.

7. When did the astronauts return to Earth? Tick **one**.

- 20th July 1969
- 14th July 1969
- 26th July 1969
- 24th July 1969

8. What did Neil Armstrong say when he first stepped on the Moon?

Answers

1. When is World Space Week celebrated?

Between 4th and 10th October

2. Explain in your own words why this year's World Space Week theme is so special.

Pupil's own response, such as: This year's World Space Week theme is The Moon: Gateway to the Stars which is special because this year is the 50th anniversary of when Neil Armstrong first landed on the moon in 1969.

3. How long is a lunar month? Tick **one**.

- 28 weeks
- 28 days**
- 28 hours
- 28 years

4. What is the average temperature on the Moon in the daytime? Tick **one**.

- 153°C
- 170°C
- 107°C**
- 153°C

5. What is an EMU? Tick **one**.

- a spacecraft
- a planet
- an astronaut's suit**
- Moon rock

6. Explain why Armstrong and Aldrin planted a flag on the Moon before returning to Earth.

Pupil's own response, such as: Armstrong and Aldrin planted a flag on the Moon because they wanted to show the world that America was the first country to send astronauts to the Moon and that they were proud of that fact.

7. When did the astronauts return to Earth? Tick **one**.

- 20th July 1969
- 14th July 1969
- 16th July 1969
- 24th July 1969**

8. What did Neil Armstrong say when he first stepped on the Moon?

When he first stepped on the Moon, Neil Armstrong said, 'That's one small step for man, one giant leap for mankind.'

World Space Week



World Space Week, which is the largest space event on Earth, is held every year between 4th and 10th October. Over 80 countries celebrate space science and technology and the contributions that it has made to improving life. This year is the 20th celebration of World Space Week and the theme is 'The Moon: Gateway to the Stars'. The theme focuses on the moon because this year marks the 50th anniversary of the first moon landings which occurred back in 1969.

Facts about the moon

Although it shines brightly, the Moon does not make its own light. Instead, it reflects the light of the Sun.

The Moon does not disappear in daytime as some people seem to think. It is simply harder to see because the Sun is so bright.

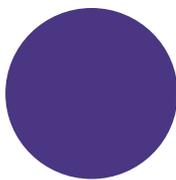
The Moon is the only thing that naturally goes around (orbits) the Earth. This takes 28 days to go around Earth once and this is known as a lunar month.

The average temperature of the Moon is 107°C in the day and -153°C at night.

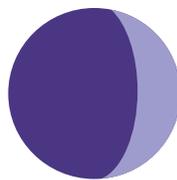
The Moon affects the waves in the oceans on Earth.

Moon Phases

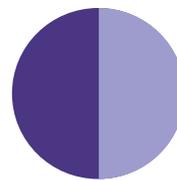
We see different parts of the Moon depending on where it is in relation to the Sun and Earth. As the Moon orbits the Earth, we see the bright parts of the Moon's surface at different angles. This is called the 'phases' of the Moon. There are eight phases in total:



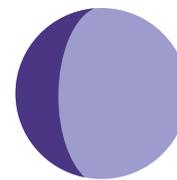
New Moon



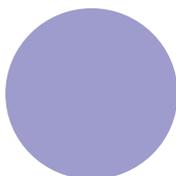
Waxing Crescent



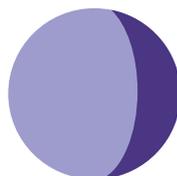
First Quarter



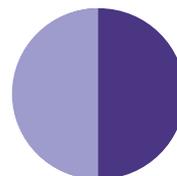
Waxing Gibbous



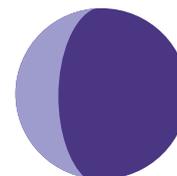
Full Moon



Waning Gibbous



Third Quarter



Waning Crescent

First Moon Landing

On 16th July 1969, Neil Armstrong, Edwin 'Buzz' Aldrin and Michael Collins set off on their mission, known as Apollo 11, to be the first people to land on the Moon. Four days later, on 20th July, Neil Armstrong became the first man to set foot on the Moon. As he stepped on the surface of the Moon, Armstrong famously said, 'That's one small step for man, one giant leap for mankind.' The Moon's atmosphere is very different to Earth's and therefore Armstrong and Aldrin had to wear specially designed suits (called Extravehicular Mobility Units) to protect them from the Moon's challenging conditions. They carried tanks containing oxygen so that they could breathe outside of the spacecraft. Neil Armstrong and Buzz Aldrin spent three hours walking on the Moon, carrying out experiments and collecting samples of moon dust, rock and soil to take back to Earth. Michael Collins remained on board the rocket to carry out vital experiments and take photographs of the mission. Before they left, they planted an American flag into the ground to mark the fact that the USA were the first country to travel to the Moon. After making some last-minute repairs to their rocket, the three astronauts returned safely back to Earth on 24th July as national heroes.

Did You Know...?

Over 600 million people around the world watched the Moon landing on TV. As a result, Neil Armstrong and his fellow astronauts became three of the most famous people on Earth. However, Armstrong was a reluctant hero and returned to the quiet life of his hometown to teach engineering.



Questions

1. For how many years has World Space Week be running? Tick **one**.

- 50
- 20
- 100
- 30

2. What is the significance of this year's World Space Week theme?

3. **Find** and **copy** a word which describes the **movement of the Moon around the Earth**.

4. How many phases of the Moon are there?

5. What was the name of Neil Armstrong's mission to the Moon?

6. What is an EMU suit? Tick **one**.

- Extravehicular Moon Unit
- Extravehicular Modular Unit
- Extreme Mobility Unit
- Extravehicular Mobility Unit

7. Why did the three astronauts return home as national heroes? Explain your answer fully.

8. What do you think it means when Neil Armstrong was described as a 'reluctant hero'?
Explain your answer fully.

Answers

1. For how many years has World Space Week be running? Tick **one**.

- 50
- 20**
- 100
- 30

2. What is the significance of this year's World Space Week theme?

Pupil's own response, such as: This year's World Space Week theme is 'The Moon: Gateway to the Stars' and this is significant because it is the 50th anniversary of when Neil Armstrong became the first man to walk on the Moon.

3. **Find and copy** a word which describes the **movement of the Moon around the Earth**.

orbits

4. How many phases of the Moon are there?

eight

5. What was the name of Neil Armstrong's mission to the Moon?

Apollo 11

6. What is an EMU suit? Tick **one**.

- Extravehicular Moon Unit
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- Extreme Mobility Unit
- Extravehicular Mobility Unit**

7. Why did the three astronauts return home as national heroes? Explain your answer fully.

Pupil's own response, such as: The three astronauts returned home as national heroes because they had achieved something incredible and they were American so the whole of America were very proud of them. They planted an American flag on the Moon to mark their achievement.

8. What do you think it means when Neil Armstrong was described as a 'reluctant hero'. Explain your answer fully.

Pupil's own response, such as: I think that Neil Armstrong was described as a reluctant hero because he was just doing his job and he didn't know that he was going to be as famous as he was. It says that he returned to the quiet life of his hometown, so he obviously didn't like being famous.