

**Cornerstones**

## The Solar System

### [A tour through our Solar System – NASA](#)

This 15-minute film describes each planet in order, starting with Mercury. It includes many facts and stunning images about each planet and their moons.

### [The Orrery at Jodrell Bank – YouTube](#)

This one-minute film shows the movement of the orrery at Jodrell Bank with close-up shots of the mechanism.

### [Solar System – YouTube](#)

A two-minute video showing how the planets orbit the Sun and the speed of their orbit. Ideal for demonstrating how the lengths of years are different on each planet.

### [Earth and Moon viewer – Fourmilab](#)

See the Earth or Moon from space in real-time! Great for identifying geographical features on the Earth or the Moon.

## The work of Sir Isaac Newton

### [Discovering the work of Sir Isaac Newton – BBC Bitesize](#)

Dick and Dom explain Sir Isaac Newton's theory of gravity in seven minutes! They explore G-force through various activities including a wall of death ride.

### [Beyond the Big Bang: Sir Isaac Newton's laws of gravity – History.com](#)

An excellent, five-minute film detailing Newton's law of gravity and his life. At 3:54 minutes the film states, 'So far as we know, he died a virgin'. If necessary, you can stop the film before this point.

*Please ensure you have Flash installed before using this video.*

## The work of Galileo Galilei

### [Galileo Galilei – History.com](#)

A four-minute video that describes Galileo Galilei's belief that the Sun was at the centre of the universe. It also describes how his theories threatened the Catholic Church and led to his eventual house arrest.

*Please ensure you have Flash installed before using this video.*

### [Galileo Galilei – BBC Science](#)

A short film about Galileo's discovery of sunspots. It includes his original drawings.

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## **Living and working in space**

[\*A Day in the Life: Aboard the International Space Station – NASA\*](#)

A set of six different clips that show the effect of zero gravity on everyday life aboard the International Space Station.

[\*Space Oddity recorded by Chris Hadfield – YouTube\*](#)

A version of David Bowie's song Space Oddity recorded by Commander Chris Hadfield on board the International Space Station.

[\*Weightlessness in space – BBC Bitesize\*](#)

Helen Sharman, who was the first British person in space, describes her experience of zero gravity during her 1991 visit to the Mir space station.

## **The Moon**

[\*Earth's Moon: Gallery – NASA\*](#)

Many pictures of all things Moon-related. There are moon landing images as well as pictures of the Moon's surface and the phases of the Moon.

[\*Apollo 11 – First Moon Landing – YouTube\*](#)

A five-minute montage of the Apollo 11 mission to the Moon, including footage of the journey and landing.

[\*The Moon – BBC Bitesize\*](#)

A simple explanation of the structure and orbit of the Moon for KS2 children, with clips of the first Moon landing.

[\*We choose to go to the Moon – original speech – YouTube\*](#)

A two-minute section of President Kennedy's 1962 speech at Rice University describing the proposed mission to the Moon.

[\*We choose to go to the Moon – speech with visual clips – YouTube\*](#)

Highlights of Kennedy's 1962 speech at Rice University with visual clips to emphasise the meaning of the speech.

[\*Moon moving in real time closeup HD – You Tube\*](#)

A short video clip showing the movement of the Moon.

[\*Moon Rise Time Lapse 1300 mm – You Tube\*](#)

A one-minute, time lapse video of the Moon rising

[\*Moon at night \(in time lapse photography\) – You Tube\*](#)

A short, atmospheric film showing the Moon on a cloudy night.

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## **The Goldilocks planet**

[Planet Earth – BBC Bitesize](#)

A very short clip explaining why the Earth is known as the Goldilocks planet.

## **Maps of the Solar System**

[Exploring Our Solar System: Planets and Space for Kids – YouTube](#)

A 12-minute video showing an in depth introduction to each of the planets in the Solar System.

[Star Size Comparison – YouTube](#)

Animation that helps children understand the size of different planets and stars.

[What is the Solar System? – BBC Bitesize](#)

A short BBC animation that shows the order of the planets.

[What are the Rocky Planets? – BBC Bitesize](#)

A short BBC animation that looks into the four terrestrial (rocky) planets.

[What are the Gas Planets? – BBC Bitesize](#)

A short BBC animation that looks into the four gas planets.

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