

### Suggested Books

#### Fiction

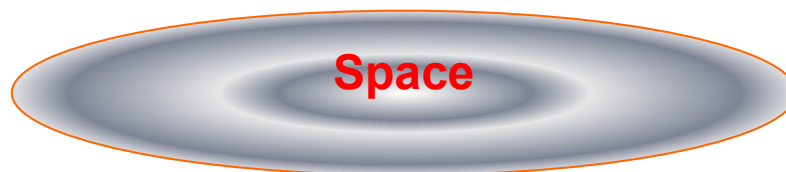
Cosmic—Frank Cottrell Boyce  
The Jamie Drake Equation by Christopher Edge  
Curiosity: The Story of a Mars Rover—Markus Motum  
The War of the Worlds—H G Wells  
Tin - Pdraig Kenny  
Mortal Engines—Philip Reeve  
Phoenix—S F Said  
The Iron Man—Ted Hughes  
A Wrinkle in Time—Madeleine L'Engle  
Time— Travelling with my Hamster—Ross Welford  
Artemis Fowl—Eoin Colfer  
Baby Aliens got my Teacher! - Pamela Butchart & Thomas Flintham  
The Skies Above my Eyes—Charlotte Guillain & Yuval Zommer  
The World's Greatest Space Cadet—James Carter  
Planet Stan—Elaine Wickson & Chris Judge  
A Galaxy of her Own—Libby Jackson  
My Brother is a Superhero—David Solomons

#### Non Fiction

The Usborne Official Astronaut's Handbook—Louie Stowell & Roger Simo  
Hidden Figures—Margot Shetterly & Laura Freeman  
How to be an Astronaut - Sheila Kari-ani & sol Linero

### Visit/ Trip ideas

National Space Centre—Leicester  
Jodrell Bank—Macclesfield  
Royal Observatory—Greenwich, London  
Thinktank—Birmingham  
We the Curious—Bristol  
Winchester Science Centre and Planetarium  
Science & Industry Museum, Manchester



### Useful Resources

YouTube: moon landings; simulations etc  
UK Space Agency: <https://www.gov.uk/government/organisations/uk-space-agency>  
NASA: <https://www.nasa.gov/>  
European Space Agency: <https://www.esa.int/kids/en/home>  
National Geographic for Kids: <https://www.natgeokids.com/uk/discover/science/space/ten-facts-about-space/>

### Topic Hooks

Trip [see visit ideas]  
Photos of the Earth from Space  
Extracts from moon landings  
Invite a STEM ambassador to school  
Mobile Planetarium visit to school  
Google Virtual Reality

### Prominent People

Tim Peake  
Neil Armstrong  
Buzz Aldrin  
John Glenn  
Yuri Gagarin  
Nicolas Copernicus  
Galileo Galilei  
Isaac Newton  
Albert Einstein  
Edwin Hubble

## ENGLISH

### Writing opportunities

Recount: Diary/ letter—Astronaut's experiences; Biography—Space explorers

NCR— planets; moon; International Space station; mission to the moon

Newspaper Report: Moon Landings; Apollo 13 crisis; Challenger explosion

Persuasion: letter about the future of space exploration;

Explanation: Alien Guide to life on Earth

Discussion—is space exploration still necessary? Is there life on other planets?

Instructions—How to build a space craft; How to survive in space

Narrative— write a sci-fi story; write a story about an alien visiting Earth

## ENGLISH

### Speaking and Listening opportunities

Drama—role play meeting an alien; landing and exploring the moon

Discussion—debate the need for space exploration; is there life on other planets?

## ENGLISH

### Poetry

Silver—Walter de la Mere

The Old Astronomer—Sarah Williams

A Rocketful of Space Poems—John Foster & Korky Paul

Mother Earth, Father Sky—Jane Yolen

Comets, Stars, The Moon and Mars—Douglas Fletcher

The Great Galactic Ghoul—Brian Moses

Hello H<sup>2</sup>O—John Agard

Centrally Heated Knickers—Michael Rosen

## GEOGRAPHY

Locational knowledge: latitude and longitude; use of atlases and maps

## SCIENCE

Space[Y5]

Forces [Y5]

Properties and Changes of Materials [Y5]

## MATHS

PV / Measures—distance from the sun; convert miles to Km

Drawing circles

Time zones

## HISTORY

The race to the moon

Timeline of space scientists

How our understanding of the Solar System developed

Use of Stonehenge as an astronomical clock

History of timepieces

## **COMPUTING**

Design , write and debug physical simulation of real life events—rotation of moon around Earth/ Earth round the sun; phases of the moon

Write and film a newspaper report about the moon landings; Apollo 13

Create a 3D space station for Mars

Create an animation to explain the phases of the Moon/ how Earth orbits the Sun

## **MUSIC**

Listen to and appreciate music about Space:  
The Planets—Holst; Film scores Eg Star Wars;  
Star Trek; A Space Odyssey; Space Oddity—  
David Bowie

## **PE**

Importance of physical activity on well-being

## **ART**

Paint the planets/ stars universe as seen from Space using photographs for inspiration

Look at the work of famous artists  
Eg Van Gogh—Starry Night;

## **DT**

Create 3D model of Solar System

Design rocket / space craft

Design alien

Design and build Rocket launchers

Design and build a Mars Rover/  
moon buggy

Design a tool to use in Space

## **PSHE—character strengths**

Determination

Resilience

Teamwork

Co-operation

Risk-taking

## **PSHE—curriculum**

How to predict, assess and manage risk

To recognise individuality and personal strengths

To identify personal strengths, skills, achievements and how they contribute to self-worth

How to manage set backs and perceived failures

## **RE**

Creation stories from world religions