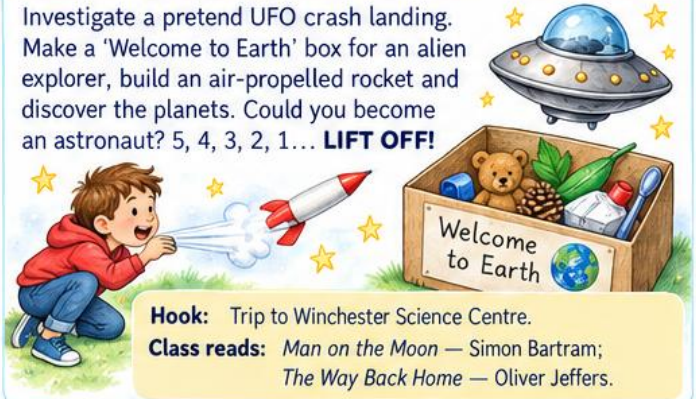
# Mission to the Moon

## Year 1 Knowledge Organiser

## OUR TOPIC

Investigate a pretend UFO crash landing. Make a 'Welcome to Earth' box for an alien explorer, build an air-propelled rocket and discover the planets. Could you become an astronaut? 5, 4, 3, 2, 1… **LIFT OFF!**




**Hook:** Trip to Winchester Science Centre.

**Class reads:** *Man on the Moon* — Simon Bartram; *The Way Back Home* — Oliver Jeffers.

## THIS TERM

**History:** History of space travel.

**Science:** Space; revise everyday materials.

**PSHE and No Outsiders:** Rights and Respect; Hair, It's a Family Affair!

**Art:** Colour Splash! Painting and mixed media.

**RE:** What do Christians learn from stories of Jesus?

**Games:** Athletics — running, throwing and jumping.

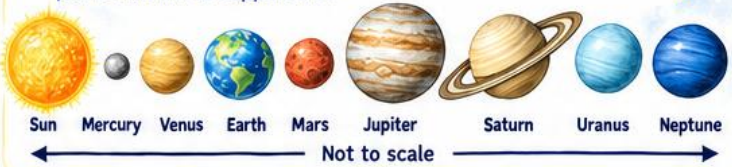
**PE:** Dance — sequences, expression and shape.

**Computing and Online Safety:** Programming Bee-Bots; privacy and security.

**Music:** Boomwhackers; Holst — *The Planets*.

## OUR SOLAR SYSTEM

- The Solar System contains the Sun and objects that orbit it: planets, moons, asteroids and dwarf planets.
- Eight planets in order from the Sun: Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune.
- Mercury is closest to the Sun; Neptune is the furthest planet.
- Pluto is a dwarf planet.
- We live on Earth, the third planet from the Sun and the only planet known to support life.




## ASTRONAUTS AND APOLLO 11

- Astronauts train for a long time to travel into space in spacecraft launched by rockets.
- Some orbit Earth, visit the International Space Station or travel to the Moon.
- Famous astronauts: Yuri Gagarin, Neil Armstrong, Helen Sharman and Tim Peake.
- On 20 July 1969, Neil Armstrong became the first person to walk on the Moon.
- Apollo 11 carried Neil Armstrong, Buzz Aldrin and Michael Collins.
- The mission launched on a Saturn V rocket.




## THE MOON

- A moon is a natural object that orbits a planet.
- Earth has one moon; Mars has two; Jupiter has many.
- Our Moon is rocky. Its craters formed when space rocks hit its surface.
- The Moon does not make its own light; it reflects sunlight.



## KEY VOCABULARY

| | |
|---|---|
| **Astronaut** | A person trained to travel into space. |
| **Moon** | A natural object that orbits a planet. |
| **Solar System** | The Sun and all objects that orbit it. |
| **NASA** | The United States space agency. |
| **Space** | The region beyond Earth's atmosphere. |
| **Planet** | A large natural object that orbits a star. |
| **Mission** | An important job to complete. |

## EVERYDAY MATERIALS

- Objects are made from one or more materials.
- Similar objects can be made from different materials, such as plastic, metal or wooden spoons.
- A material can have different forms and properties.
- Describe materials using words such as shiny, stretchy and rough.

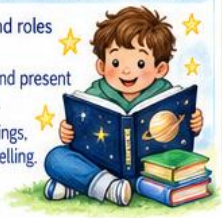



## MATERIALS WORDS

| Hard | Soft | Bendy | Rough | Smooth | Material | Stiff |
|---|---|---|---|---|---|---|
| Not easily scratched, cut or dented. | Easy to press, squash or mould. | Can bend easily. | Has an uneven surface. | Has an even surface. | What something is made from. | Not easily bent. |

## WHAT WE ALREADY KNOW – EYFS

- Talk about people's lives and roles in society.
- Compare things in the past and present using experience and books.
- Explore the past through settings, characters, events and storytelling.



## FUTURE LEARNING – YEAR 5

- Describe how Earth and the other planets move around the Sun.
- Describe how the Moon moves around Earth.
- Recognise the Sun, Earth and Moon as approximately spherical.
- Explain day and night using Earth's rotation, and why the Sun appears to move across the sky.

