

CYCLE B KS2	
Term 6- What lies beyond Planet Earth and how do we know?	
Overview-GLOBAL- DT- Design and create solar system using knowledge of planets	
Space Travel, Neil Armstrong, Tim Peake Moon Landing, Valentina Tereshkova, Peggy Whitson, Helen Sharman	
Prior Knowledge	KS2 National Curriculum Objectives
Science (KS1) - That there are different types of weather and that weather changes across the seasons. - That the Sun provides light and warmth and is important for life on Earth. - That it is unsafe to look directly at the Sun. - Basic observations of the sky during the day and at night, including the Sun, Moon and stars. - How to observe and describe changes over time. Design & Technology (KS1) - Designing simple products for a purpose. - Generating ideas through drawing and discussion. - Using simple tools safely (e.g. scissors, glue, paintbrushes). - Cutting, joining, folding and shaping a range of materials. - Evaluating what they have made and suggesting simple improvements.	Science (KS2) - Describe the movement of the Earth and other planets relative to the Sun in the Solar System. - Describe the movement of the Moon relative to the Earth. - Describe the Sun, Earth and Moon as approximately spherical bodies. - Use the idea of the Earth's rotation to explain day and night and the apparent movement of the Sun across the sky. Working Scientifically - Ask scientific questions. - Use models to explain scientific ideas. - Record and present findings. - Use evidence to support explanations. Design & Technology (KS2) Design - Use research to develop design criteria. - Generate and communicate ideas through sketches, labelled diagrams and prototypes. Make - Select and use appropriate materials and tools accurately.

	• Apply practical skills safely and effectively. Evaluate • Evaluate products against design criteria. • Suggest improvements based on testing and feedback.	
Key Skills		
Scientific Enquiry • Ask questions about Earth, the Solar System and space. • Make observations using models, images and secondary sources. • Gather, record and interpret information from a range of sources. • Use scientific evidence to explain ideas about space. DT • Generate and communicate design ideas through sketches and labelled diagrams. • Select suitable materials, tools and equipment. • Measure, cut, join and assemble materials safely and accurately. • Apply finishing techniques to improve the appearance of their model. • Evaluate their design against success criteria and suggest improvements.		
PSHE Links	Key Vocabulary	Cross Curricular links (DT/RE)

Living in the Wider World

- Develop curiosity about the world beyond Earth and recognise the importance of scientific discovery.
- Understand how scientists, engineers and astronauts work together to expand our knowledge of space.
- Recognise that exploration and innovation can improve our understanding of the world.
- Appreciate how advances in science and technology have shaped modern life.
- Communication – explaining scientific ideas and presenting their models.
- Collaboration – working effectively with others.
- Problem-solving – overcoming design and construction challenges.
- Decision-making – selecting appropriate materials and design solutions.
- Self-reflection – evaluating their work and identifying improvements.



Art

Drawing and painting: Spirals in space Artist: Van Gogh

Careers

Opportunities to explore careers linked to:

- Astronomy
- Space science
- Engineering
- Design and Technology
- Computing
- Physics
- Aerospace

History

Learn about significant events and individuals in space exploration, such as the first Moon landing and the development of space travel, and understand how our knowledge of space has changed over time

Maths

Measure and compare the relative sizes of planets. Use scale where appropriate, collect and present data, and apply measuring skills when constructing models.

