

**Pupil Voice:**

aliens, galaxies, life cycle of a star, the sun, Area 51, Can plants live out in space? What happens to your body in space?

**Learning Logs:**

Phases of the Moon – log/diary. Link to Class Blog.  
Model linked to space e.g. spacecraft, planets, solar system

**Languages, Literacy and Communication:**

- Discursive writing using ‘Man on the Moon’ conspiracy theory as a stimulus.
- Debate focusing on the conspiracy theory.
- Research, make notes about an aspect of space e.g. the planets, stars, the moon. Use *Book Creator* – create non-fiction book.
- *Read, Write, Perform* – Lost in Space: A transmission of Hope. Write and record a transmission home from an astronaut stranded on Mars. Broadcast on radio station.
- Write a formal letter home – from an alien visiting Planet Earth. Welsh: Astronaut.
- Instructions for an astronaut’s exercise programme. Commands/activities.
- Welsh poetry recitation – *I’r Lleuad*.

**Mathematics and Numeracy:**

- 3D shape / 2D shape – radius, diameter and circumference of circles – properties of spheres.
- Measure – weight / mass linked to space food/weightlessness.
- Distance of planets from the sun.
- Scale of the solar system.
- Line graphs linked to the changing temperature of the Earth – link to global warming.
- Data handling – mean, mode, median linked to temperatures of the Solar System’s planets.
- Number – place value – 6 digit numbers+
- Time – how long it takes the planets to orbit the sun/ the moon to orbit the Earth.

**Science and Technology:**

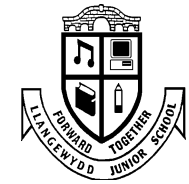
- Phases of the moon – keep a diary.
- Life Cycle of a star – create a display.
- Sundials / shadows – track the sun throughout a school day. Photographic record. Research/information about the planets e.g. diameter, temperature, features. Database. Book Creator.
- Plants – conditions needed for growth/ investigation / characteristics of living things.
- Design a Rocket – emphasis on aerodynamics / forces / propulsion.
- *Galaxy Zoo* app - categorize galaxies.
- *Feed Spot* – space blogs of the day.

**Outdoor Learning:**

- Sundials /shadows.
- Distance simulation of distance between planets.
- Rocket demonstration.

**Curriculum Cymreig:**

- Welsh astronaut – John Anthony Llewellyn
- Techniquet /Cardiff Museum



**Super Start (Engage)**

Visit to Cardiff Museum – Tim Peake capsule  
Techniquet - Planetarium

Literacy

Numeracy

Digital Competency

**Topic Map – Year 5 - Space**

Critical Th. / Problem S.

Planning and organising

Creativity / innovation

Personal effectiveness

**Fabulous Finish (Celebrate)**

Outdoor Showcase – practical, interactive activities.  
Rocket demo/Moon Shadows / Green Sc

**Visitors:**

- Local astronomical society / visit with telescope.
- Rhys Phillips - Airbus
- e-mail / Tweet astronauts

**Visits:**

- Techniquet - Planetarium.
- Cardiff Museum

**Real life contexts:**

- Real life astronauts.
- NASA – potential contact.
- *Galaxy Zoo* app -

**Expressive Arts:**

- Design and make own sundial / shadow puppets.
- Constellations – artwork linked to legends – punched holes in black card.

**Humanities:**

- Man on the Moon – Neil Armstrong – link to conspiracy theory unit of work.
- Climate Change – what factors affect it? What impact is it having on earth? Link to apocalypse films. Poster about the issue.
- Planet Earth – the equator, pollution, the ozone layer, global warming.

**Health and Well-being:**

- Design/create an exercise programme for an astronaut.
- Dance – choreograph dance sequences that reflect the journey of an astronaut from Earth to a different planet.
- Nutrition / Healthy eating – food diary of an astronaut.
- Diamond Ranking – What items would you take to space and why?
- What makes a good astronaut? What makes a good team?

**Quality Texts:**

- ‘Space Stowaway’.
- ‘George’s Secret Key to the Universe’ by Stephen and Lucy Hawkins.
- Non-fiction / information books about space / planets.
- ‘Planet Prison’ multimedia text