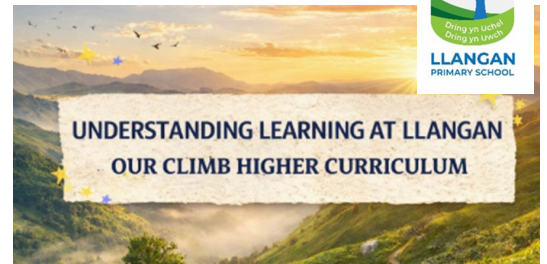


At Llangan Primary School, our curriculum is carefully designed to help children become curious thinkers, confident learners and independent problem-solvers. This Spring Term, learning across the school will once again be driven by our Climb Higher Curriculum (Dring yn Uchel, Dring yn Uwch), which places inquiry, creativity and challenge at the heart of everything we do.



### Understanding the two documents include:

To help you see how learning unfolds in practice, you will receive two linked documents for your child's class:

#### 1. The Curriculum Overview

This document shows what your child will be learning across all Areas of Learning and Experience (e.g. language, maths, science & technology, expressive arts, humanities, health & wellbeing). It outlines key skills, experiences and subject knowledge planned for the term, helping you understand the breadth and balance of learning.



#### 2. The Inquiry Storyboard

The storyboard explains how learning develops over time through our shared Inquiry Journey. It shows the stages pupils move through as their thinking deepens and becomes more sophisticated. For example, in Nursery this might involve designing and testing puppets, while in Year 6 pupils may be engineering and evaluating aircraft prototypes

### What is our curriculum about?

Our curriculum is inquiry-led. Each term, pupils explore a big question that gives learning purpose and meaning. These questions encourage children to wonder, investigate, test ideas, make connections and reflect — much like real scientists, historians, engineers and artists do.

Rather than simply learning isolated facts, pupils are supported to:

- think deeply and ask questions,
- make sense of new learning,
- apply their knowledge creatively,
- and take increasing ownership of their learning.

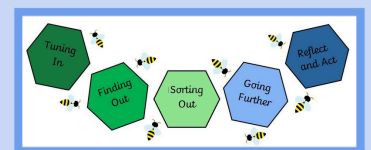
This approach builds cognitive challenge, strengthens thinking skills, and supports children to become independent and resilient learners.



## Our Curriculum Journey

All classes follow the same inquiry structure, adapted appropriately for age and stage:

- Jump In – an exciting hook to spark curiosity and motivation
- Find Out – learning new knowledge and skills
- Sort Out – making sense of learning and identifying patterns
- Go Further – applying learning creatively and independently
- Reflect and Act – reviewing learning, purpose and impact
- Jump Out – sharing and celebrating learning with others



This structure ensures learning is carefully sequenced, progressively challenging, and rooted in purposeful outcomes.

We believe children learn best when they are actively involved, intellectually challenged, trusted to think for themselves and supported to reflect and improve. Through inquiry learning, pupils develop strong thinking and problem-solving skills, growing in independence, confidence, creativity and collaboration. Careful planning by staff ensures that every child is supported and challenged, while still allowing space for pupil voice, curiosity and creativity to flourish. We hope these documents give you a clear picture of what learning looks like at Llangan and why we are so proud of our curriculum. As always, we value working in partnership with you to support your child's learning journey. More information can be found here: [Llangan Primary School - Curriculum](#)

## Year 6 Spring Term Inquiry – Science and Technology A study in Innovation and Design, Creativity, Cause and Effect

### Essential Question

How have aeroplanes developed over the years?  
What makes something fly?  
How do aeronautical engineers make human flight possible?

**Tuning In - What's the fuss about flight?**



**Why am I learning this?**

To set our learning in context. To ask the big questions, handle models, explore cockpit controls and black box recordings.

To understand why humans have tried to fly. To gain an understanding of how things fly.  
Ambitious, capable learners.

**My experience as a learner**

- I will have the opportunity to:
- Visit South Wales Aviation Museum
  - Share my existing knowledge about flight
  - Explore the development of aeroplanes and flying machines
  - Watch clips of flight explaining the forces at play.

**Finding Out - Pioneers in pursuit of flight**



**Why am I learning this?**

To deepen our understanding of flight and the role of aeronautical engineers. To understand the forces at work in flight processes.

To reflect on the role of pioneers and innovators.  
Enterprising, creative contributors.

**My experience as a learner**

- I will:
- Investigate how propulsion works.
  - Study aviation pioneers and key inventions
  - Collect and compare flight data
  - Investigate lift using simple wind-tunnel set ups
  - Explore forces and investigate.

**Sorting Out - Taking Flight!**



**Why am I learning this?**

To apply some of the design and engineering principles we have learnt. To be able to design, innovate, and create for myself.

Enterprising, creative contributors.

**My experience as a learner**

- I will:
- Annotate aircraft diagrams
  - Evaluate how engineers use drag
  - Analyse historical and modern aircraft
  - Look how nature has inspired flight technologies
  - Debate: is flight worth the environmental cost?
  - Build a class timeline of aviation milestones

**Going Further - Engineering the skies!**



**Why am I learning this?**

To know how to articulate our own ideas.

To be able to design, innovate, and create for myself.

Ambitious, capable learners and enterprising, creative contributors.

**My experience as a learner**

- I will:
- Program micro-bits to create cockpit sensors
  - Experiment with expressive arts stimuli and begin composing motifs
  - Research aviation disasters to understand engineering improvements
  - Experiment with propulsion, thrust, drag and centre of mass.

**Reflect and Act - Flight check, reviewing our prototype.**



**Why am I learning this?**

To share our learning with an authentic audience. To collaborate, organise and event. Problem solve where necessary.

Ambitious, capable learners and enterprising, creative contributors.

**My experience as a learner**

- I will:
- Finalise aircraft prototypes
  - Curate an exhibition for Jump Out day
  - Present a showcase with technical displays
  - Film dramatic flight tests with musical compositions.



How do engineers make human flight possible?

# Year 6 Spring Term Overview 2026

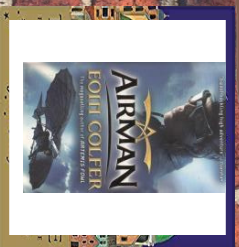
## How do engineers make human flight possible?

### LLC/English

In Year 6 this term, we will be focusing on:

- Narrative – mystery story
- Formal letters
- Non-chronological reports
- Information texts - encyclopaedia entries
- Persuasive speeches
- Balanced arguments

We are reading...



### Welsh



In Welsh we will be learning about Time and will look at:

- Gwyliau – holidays
- Past and future tense
- Revision of basic sentence patterns

### Maths

We will be looking at:

- Ratio
- Algebra
- Area
- Perimeter
- Volume
- Solving multi-step problems
- Reasoning activities

### Expressive Arts

During this inquiry, we will be focusing on our music skills and creating music linked to flight. Set pieces will include Ride of the Valkyries by Wagner and Flight of the Bumblebee by Rimsky-Korsakov.

We will be composing and performing our own 'flight' music using incidental music from films such as Star Wars to inspire us!

### Science & Tech

We will:

- Explore the forces at work for flight to occur.
- Construct, test and adjust wing shapes.
- Investigate lift using wind tunnels.
- Explore the effects of drag by creating various conditions for testing.
- Understand the environmental impacts of aviation
- Design, create and build prototypes for aeroplanes, helicopters and gliders.
- Understand the engineering processes in the design and manufacturing of modern aircraft.



LLANGAN PRIMARY SCHOOL



## French

In our French lessons this term, we will be continuing to use our growing conversational French and learning new vocabulary and language patterns based on language around school:

- School subjects
- Timetables
- Basic sentence pattern revision

## Health & Wellbeing

In our health and wellbeing lessons we will be focusing on:

- Perceptions
- Tolerating other perspectives
- Perception vs Reality (particularly in terms of online advertising)
- Strategies for discerning trustworthy sources of information
- Strategies for healthy emotional regulation.

Our PE sessions will focus on striking and fielding games, moving on to hockey.

## Humanities

In our humanities learning this term, we will be:

- Exploring the history of aviation
- Researching famous flight pioneers from the past and present
- Explore the global impact aviation has had on travel, tourism, business, trade, and pollution

## Home Learning

Weekly:

- Reading
- Spelling
- Mathematics

Fortnightly:

- Homework task – instructions to be found in homework books and on the Dosbarth Llwynog page of the school website.

## Computing

During our computing sessions, we will be:

- programming micro:bits to simulate and create cockpit systems and sensors
- creating recording systems to simulate black box recorders.

## Inquiry Overview

How do engineers make human flight possible?

In this Inquiry, we will be exploring the development of human flight. We will meet some famous flight pioneers, visit an aviation museum and take part in aeronautical engineering workshops.

We will seek to understand the roles of engineering and manufacturing in modern-day aviation and become designers and engineers ourselves by designing, creating testing and evaluating prototypes of a range of flying machines.

How do engineers make human flight possible?



Fight engineers!