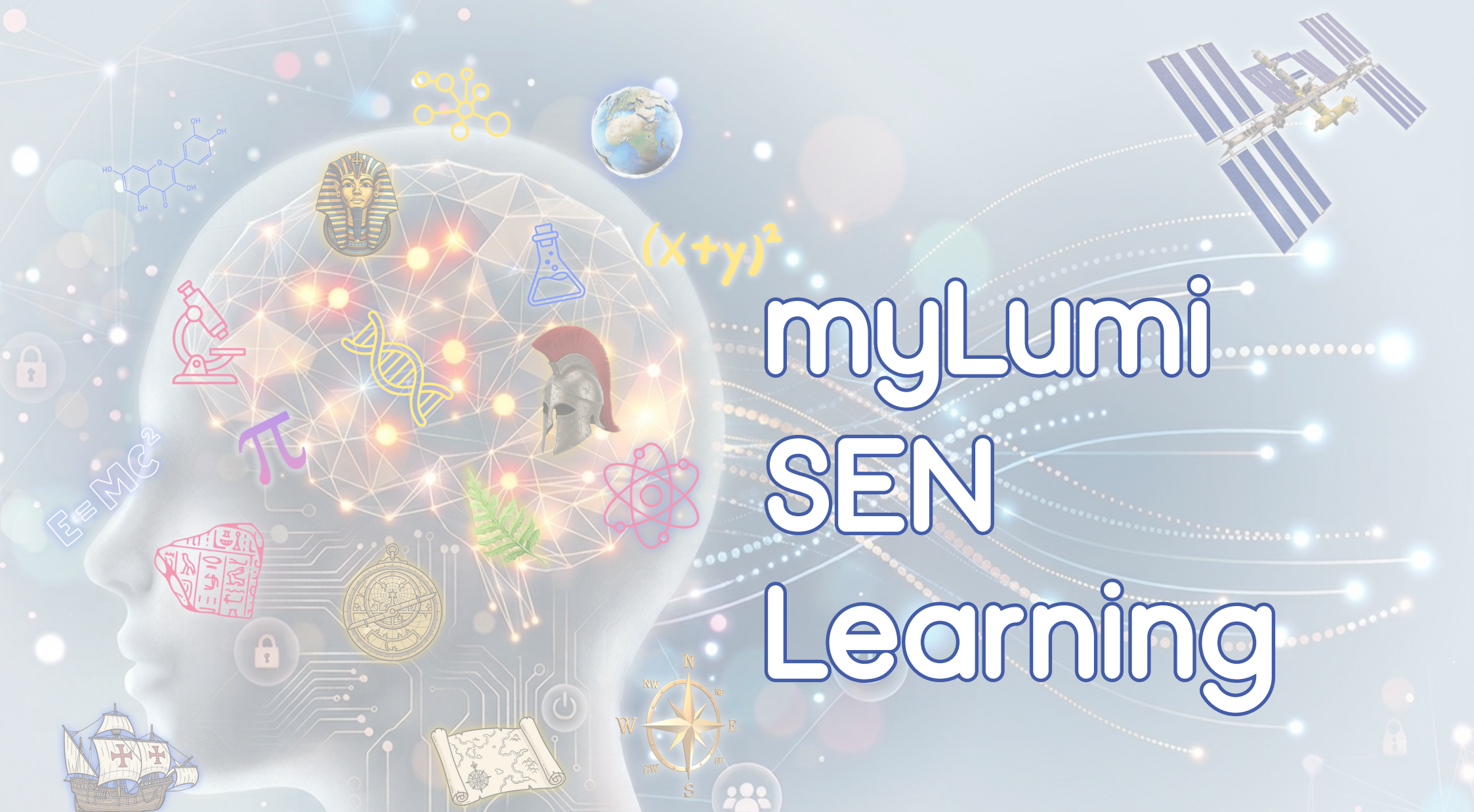




myLumi SEN Learning

A personalised, adaptive and emotionally intelligent
online SEN learning platform for neurodivergent children

An Educational System at Breaking Point

The need for Specialist Educational Needs (SEN) provision in the UK has never been greater, or more poorly served. Existing online learning platforms, which SEN pupils are expected to use, rely on static content libraries, neurotypical assumptions, and one-size-fits-all delivery. For a child with dyslexia, dyscalculia, ADHD, autism, trauma or severe anxiety they are at best ineffective, and at worst harmful.

myLumi SEN Learning is a next-generation learning platform that curates, personalises and guides every learner individually. It will provide an alternative, specialist education to those children who show sensory, emotional, and mental health (SEMH) profiles, and/or have Specific Learning Difficulties (SpLD) profiles, either individually or in any combination.

The main reason neurodivergent children struggle with existing platforms isn't that the content is wrong, it's that their experience is wrong. What makes our platform genuinely innovative is that its core differentiator isn't just adaptive learning: it's also the sensory, emotional, and motivational design around the learning.

Many SEN children cannot physically access school, so online learning is their only option. This platform will provide something they have never come across before, as well as providing supplementary SEN specific learning to children who do attend school.

538,000+

children in England
have legal entitlement
to additional
SEN support

175,000+

children are in
home education

28%

of secondary-age
pupils have avoided
school due
to anxiety

"We are building something that has never existed before: a learning platform that genuinely meets neurodivergent children where they are, and guides them forward with dignity, agency and motivation."

Why Us?

As parents of a highly anxious teenage daughter with Autism Spectrum Disorder (ASD) and a Pathological Demand Avoidance (PDA) profile, who has suffered from Emotional Based School Avoidance (EBSA) for many years, we have experienced first hand the struggle with home education, and we know that for our daughter nothing currently on offer worked. We also know this to be true for many, many other children.

Professionally, we have decades of experience working in digital transformation and learning & development in a corporate environment. We have built learning platforms (pre-AI), managed large and diverse design and technology teams, led software and AI development, produced educational documentaries for global broadcasters and designed and built online experiences. We believe it's the ideal combination of skills and experience required to finally rectify this problem!

Working with a small team of hand-picked teachers, SEN specialists and Occupational Therapists we are designing and building a solution from the ground up, for all the children in need.

"The learning experience must be fun, motivational and engaging. If it isn't, neurodivergent children will not use it, and will not come back."

Combining a Deep Understanding of Neurodiversity with the Power of AI

Most 'adaptive' platforms only adjust pace and difficulty. This platform adapts absolutely everything, because the barriers neurodivergent learners face go far deeper than just the speed of delivery. Specifically, it's SEN adaptations are driven by detailed, evidence-based pedagogical/design profiles informed by published research and professional body guidance. It distinguishes error types, adjusts pacing, modality and feedback style, and builds in structured overlearning, all calibrated to the individual learner's profile.

- For SEMH profiles it address the emotional and relational barriers that prevent engagement with learning altogether.
- For SpLD profiles it address the cognitive and processing differences that shape how a learner engages with content, and consolidates knowledge.

The platform is built around three deeply integrated AI-powered components, each designed around the realities of neurodivergent learning.

Content Curation Engine

- AI-powered scanning, evaluation and selection of the best open-source learning content from across the internet
- Includes videos, podcasts, interactive tools and articles, all mapped to curriculum standards
- Tagged for modality, sensory load, cognitive demand and accessibility
- Verified by subject experts before it reaches any learner

Adaptive Learning Platform

- Builds bespoke learning paths matched to each learner's SEN profile
- Adapts in real time to attention span, emotional state, pace and learning style
- At its centre is the 'Learning Buddy': an AI companion that presents content, scaffolds understanding, celebrates progress and detects distress throughout.

Bespoke User Interface

- Every visual, audio and interactive element is individually calibrated: screen themes; fonts, colours and contrast; layout and widget positioning; and background sound
- The 'Learning Buddy' has customisable face, voice and personality
- Informed by Occupational Therapists and SEN Specialists to work with each learner's individual sensory and learning profile

What Makes the myLumi SEN Platform Unique

Built for Neurodiversity

It is designed from the ground up around SEN methodology, not adapted from a mainstream platform. Emotional wellbeing, distress detection, and anxiety-sensitive engagement are structural, not retrofitted.

A Genuinely Bespoke Environment

The learner's UI experience is 100% customisable, so they can learn in an environment where they feel safe and motivated. It is not a skin on a generic platform, and is the key to maintaining engagement with neurodivergent learners.

Truly Adaptive in Real Time

Most platforms adapt between sessions. This one adapts moment to moment, before the learner has to ask for help, responding to engagement quality, emotional state, error patterns and response time.

Spiral Learning Built In

It provides continuous checks for knowledge gaps, regular refreshers and a curriculum sequencing approach that mirrors best educational practice.

Safeguarding by Architecture

Real-time safeguarding alerts are routed to the appropriate contact and it has age-appropriate access controls and comprehensive logging of safeguarding events. All are built into the platform architecture, not appended.

The Learning Buddy

At the heart of the platform sits an AI companion unlike anything a neurodivergent learner will have encountered before.

The 'Learning Buddy' is not a teacher and not a chatbot. It is a learning companion: a consistent, warm, genuinely responsive presence that guides the learner through every session. It presents content, models thinking, scaffolds practice, celebrates effort, and adapts its tone, pace and style to the individual learner in real time.

It detects when a learner is struggling, disengaging, or showing signs of distress and responds appropriately, whether that means slowing down, offering a break, or triggering a safeguarding alert to the right adult.

The 'Buddy' presents itself however the learner wants: as an avatar, be it photo realistic or animated, full body or just head and shoulders, or even an object or character of the learner's choosing; voice only; or written word only. Its voice, accent and personality are fully customisable.

Think J.A.R.V.I.S. from Iron Man, or Baymax from Big Hero 6, (or K.I.T.T. if you're old enough!) which presents as a warm, genuinely responsive presence the learner will build a relationship with over time. For many of these children, it may be the first learning relationship they have trusted.

Designed and Moderated by Specialists

The AI technology is the foundation of the platform, but what makes it genuinely effective, and reliable, is the fact that specialist human expertise shapes and validates every aspect of the learning experience from design up.

And most importantly this is continuous moderation, not just one-time sign-off. Specialists review analytics, check AI-generated adaptations, update profile logic as the evidence base develops, and maintain the quality and safety of the platform as it scales. This ensures the platform adheres to our ethos, and presents a safe, personal and trustworthy experience foremost, whilst maximising the power of AI.

Educational Subject Experts

Qualified teachers will:

- Verify the accuracy and curriculum alignment of all curated content
- Template the learning path structures
- Review AI-generated content within modules
- Provide ongoing quality assurance as the platform adapts

Learning sequences are designed by educators, not inferred by an algorithm alone.

SEN Specialists

SEND professionals will:

- Define the learner profile framework
- Design the emotional wellbeing and distress response architecture
- Moderate the Learning Buddy's tone and interactions
- Review engagement analytics and safeguarding protocols

The adaptation logic at the heart of the platform is built on specialist clinical and pedagogical knowledge.

Occupational Therapists

Occupational Therapists will:

- Inform the sensory design of the entire user interface including colour, contrast, motion, visual load and layout
- Ensure the environment works with each learner's nervous system
- Shape the onboarding questionnaire, the in-session regulation tools, the interaction pacing, and the accommodation of motor and sensory processing differences throughout.



myLumi SEN Learning

Shaping education for children who need it the most, and have been failed by everything else.

myLumi SEN Learning Ltd
Contact: fred@mylumi.org.uk
Company Number: 17482150