

ASKN

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Modern EdTech

Designing Educational Systems
That Solve Real Problems



Education's Core Challenge: Tools Without Systems

Education technology has reached a pivotal moment. Although the past decade has seen an abundance of innovative tools, apps, dashboards, platforms, and new features, progress in learning outcomes, professional workload, and system trust has not kept pace with these developments.

The issue is not the absence of technology itself, but rather the lack of coherent learning systems. Global evidence demonstrates that learning improves when technology is integrated into several key areas:

- **Sound pedagogy**
- **Professional judgement**
- **Governance and accountability**
- **Ethical and inclusive design**

ASKN is committed to stabilising technology around education, enabling learning systems to mature, adapt, and scale responsibly, rather than simply chasing trends.



Challenge 1

Artificial Intelligence That Distracts or Replaces Professionals

A major risk in modern EdTech is viewing AI as feature rather than essential infrastructure. When AI is used to automate decisions or replace professional judgement, it can undermine trust, safeguarding, and accountability, especially in environments serving children, SEND learners, or regulated provision.

ASKN evidence-led solution is to leverage AI in ways that:

- Support early identification of need and risk (using data collected from children's interaction with the Games and taking part in the activities)
- Reduce administrative and cognitive burden (forms)
- Recognise patterns across complex learning data (feedback from the games)
- Remain explainable and supervised
- Practitioner insight alongside analytics
- Predictable, low-cognitive-load interfaces
- Adjustable pace, challenge, and sensory input

ASKN positions AI as quiet infrastructure, supporting practitioners rather than competing with them. This approach aligns with safeguarding standards, regulatory inspection models, and international guidance on ethical AI in education.



Challenge 2

Measuring Children's Development Through Capability

For children, especially in Early Years and SEND settings, progress cannot be understood through attendance or activity completion alone. Learning systems need to show what a child can demonstrate, apply, and achieve through play, guided activities, and everyday interactions.

ASKN evidence-led solution is to build effective learning systems that:

- Define developmental skills clearly and progressively
- Capture observable evidence from play, activities, and guided learning
- Align evidence with EYFS milestones and SEND-related outcomes
- Help practitioners and parents understand meaningful progress

These systems support developmentally appropriate next steps while preserving the professional judgement of practitioners.

ASKN enables practitioners to understand what a child can demonstrate, apply, and achieve – not simply which activities they have completed.



Challenge 3

Skill-based learning as economic currency

Skills have become the new currency in education and the labour market. Research from the World Economic Forum shows that employers increasingly value demonstrable skills over traditional qualifications.

Charles Fadel's work on curriculum redesign confirms this evolution: future-ready education systems emphasise what learners can do, rather than just what they have been taught.

ASKN evidence-led solution is to design skill-based EdTech platforms that:

- Define skills clearly and progressively
- Record observable evidence, not assumptions
- Align with recognised frameworks, including UK apprenticeship standards
- Connect learning with practical application and progression

Our evidence-led shift includes:

- Learners seeking relevant skills and opportunities for progression
- Apprenticeships and vocational pathways focusing on competence
- Governments funding outcomes rather than just attendance

Because skills are more portable than curricula, skill-based systems can scale internationally while still allowing for local adaptation.



Challenge 4

Data That Creates Noise Instead of Insight

Educational institutions face an overload of data but lack support for effective decision-making.

Dashboards alone do not improve learning; data only matters when it prompts **clear, defensible action**.

ASKN evidence-led solution is to focus high-trust data systems on:

- Progress toward meaningful outcomes
- Patterns tracked over time rather than isolated metrics
- Practitioner insight alongside analytics
- Evidence of intervention effectiveness

ASKN develops data narratives that:

- Withstand inspection and audit
- Support funding and compliance
- Build confidence among leaders and regulators



Challenge 5

Personalisation Without Pedagogical Direction

Personalisation is frequently misinterpreted as simply offering freedom of choice. Research shows that unlimited choice does not improve learning and can increase cognitive load, inequity, and disengagement.

ASKN evidence-led solution is to structure personalisation so that it is:

- Adaptive pacing rather than unrestricted pathways
- Multiple routes toward shared outcomes
- Dynamic scaffolding informed by learner response

In early years and SEND contexts, personalisation must also be:

- Developmentally appropriate
- Emotionally safe
- Professionally guided

ASKN treats personalisation as responsive design, not as individual isolation.



Challenge 6

Gamification That Rewards Speed Instead of Understanding

While gamification is wide spread in education, it is often poorly implemented. Reducing learning to points, badges or competition can exclude some learners and undermine deep understanding.

ASKN evidence-led solution is to design gamified learning systems that:

- Prioritise Mastery over speed
- Provide immediate, meaningful feedback
- Allow safe failure and retry
- Reinforce intrinsic motivation

ASKN incorporates game mechanics only when they shape learning behaviour, rather than distract from learning intent.



Challenge 7

Inclusion Treated as an Add-On

Inclusive design is often viewed as a specialist requirement, rather than a fundamental principle. This limits scalability and increases the cost of retrofitting solutions.

ASKN evidence-led solution is to build inclusive systems from the outset, supporting diversity through:

- Multiple ways to engage and express understanding
- Predictable, low-cognitive-load interfaces
- Adjustable pace, challenge, and sensory input

Frameworks such as SEND and EYFS show that inclusion strengthens learning systems.

ASKN sees inclusion as a marker of quality and market readiness.



The Integrated Solution

From Pedagogy to Product to Platform

Pedagogy That Defining True Learning

Pedagogy determines how learning develops over time and what success looks like.

Product That Represent Human Experience

Product design turns pedagogy into:

- Intuitive journeys
- Meaningful feedback loops
- Workflows aligned with real professional practice

Platform That Enable Scale and Stability

Platforms offer:

- Consistent data structures
- Interoperability
- Localisation, compliance, and governance

This layered approach allows multiple national systems—UK, GCC, EU, US—to operate on a shared learning engine without compromising integrity.

Pedagogy sets direction. Product enables adoption. The platform ensures longevity.

Our Commitment

Continuous Improvement Through Stabilisation

ASKN does not claim to have completed its work. Instead, we are dedicated to:

- Continuous learning from education research
- Iterative technological stabilisation
- Ethical scale grounded in real frameworks
- Long-term partnerships with educators and systems

The future of EdTech will belong not to the loudest innovators, but to the most responsible system builders those who ensure that, as technology continues to evolve, education and technology grow together intentionally, ethically and sustainably.



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