Case Study

Large-Scale Math Assessment Development for a Global K–8 Platform

Magic EdTech

The Client
The client is a global K–8 math learning provider known for its game-based platform that blends assessment with instruction.

The Challenge
The client needed to revamp its assessment item pool as part of a platform relaunch, creating thousands of new items aligned to updated curriculum frameworks across key regions. The items had to reflect varied complexity, support diverse learners, and be ready for seamless integration—under strict timelines.

Critical Success Parameters

✓ Develop 8,000+ assessment items aligned to US, UK, and Canadian math standards.

✓ Ensure curriculum coverage across varying complexity levels and learner profiles.

✓ Include 1,600+ custom visuals or diagrams to support concept visualization.

✓ Deliver JSON-compatible output packages for LMS ingestion.

✓ Maintain high engagement and editorial quality with zero scope deviation.

✓ Meet aggressive delivery timelines for platform relaunch.

Our Approach

✓ Developed 8,250 math items mapped to 165 learning standards across the US (CCSS), UK (KS2), and Canada (Ontario).

✓ Created 1,650 custom visuals to support concept clarity and engagement.

✓ Built tiered difficulty and scaffolding into item progression for varied learner needs.

✓ Followed a modular content pipeline with review checkpoints and schema validation.

✓ QA-reviewed all items and ensured compatibility with LMS via JSON-based packaging.

✓ Collaborated with subject experts to align content with curricular benchmarks and age-appropriate design.

Key Result Highlights

8,250 items delivered on time, fully scoped, with zero change orders.

0 escalated defects post-QA handover, exceeding SLA benchmarks.

Accelerated rollout of international math programs across US, UK, and Canada.

Strengthened client's position as a curriculum-aligned, mastery-focused provider.

Established a trusted partnership model for future content and subject expansions.

For more details, visit: **www.magicedtech.com**