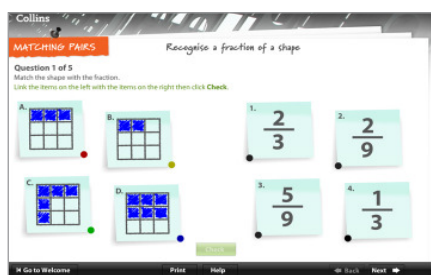


Maths e-Resources

Harper Collins

The Solution

Collins Education is always striving to offer the best and most engaging student resources and exceptional teacher support to schools, be it through print or technology.



Throughout 2009 they were producing updated, GCSE Maths Higher and Foundation textbooks for the 2010 curriculum. To complement these Collins required over 300 e-resources for delivery to support the launch of their ground breaking Interactive Book. The Book provides a flexible teaching tool that helps teachers to inspire students to excel at Maths. More specifically the Interactive Book provides:

- An Interactive Scheme of Work
- Personalisation options to suit teaching and learning styles
- Easy navigation to a raft of digital resources

In addition to the personalisation options for the resources that support classroom delivery, there is a separate Virtual Learning Environment (VLE) version that enables users to share content across teaching teams and give students direct access at school or at home.

This large project involved mapping requirements to examination board specifications and national assessment objectives. This led to the development of a series of innovative and creative resources to illustrate key concepts across the mathematics curriculum. These resources are split into two major sets - Question & Answer and Presentation topics.

The Approach

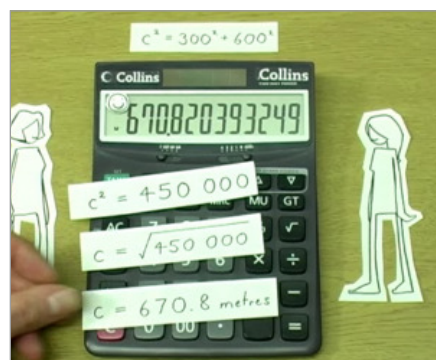
Aimed at Maths teachers and GCSE students, Q&A resources are split into:

- **10 quick questions** – timed to create a competitive element in class
- **Multiple choice** – 2, 3 or 4 answers to choose from
- **Matching pairs** – activities/exercises

Presentation resources are a maximum of 3 minutes each and set within 5 contexts:

- **Maths in the news** - video clips with discussion points/questions
- **Paper animations** – explanations of maths concepts through animated story-telling
- **Pupil demonstrations** – video clips of pupils demonstrating mathematical concepts
- **Worked exam questions** – video clips of workings with answers, hints/mark allocation and a 'how try these' feature
- **Common misconceptions** – video clips of maths book jottings addressing common mistakes/ misunderstandings

A paper-based guide advises teachers how to integrate the resources most effectively into lessons. These innovative resources are changing the dynamic of



classroom teaching. Their interactive nature means teachers are able to demonstrate how the maths they teach is applied, illustrate concepts to develop new ways of understanding, and prepare students to solve problems under exam conditions.

For more information on our work in this area, call +44 (0) 1273 728686 or email marketingenq@epic.co.uk