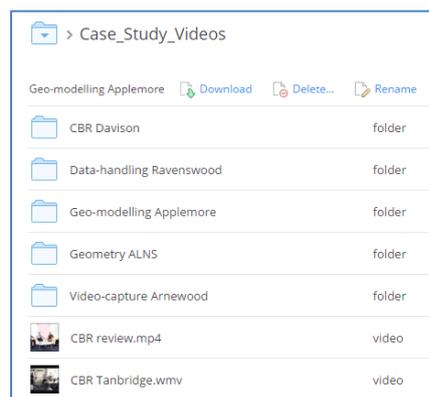
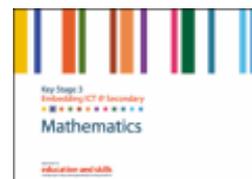


Video Case Studies produced by the DfES in 2004

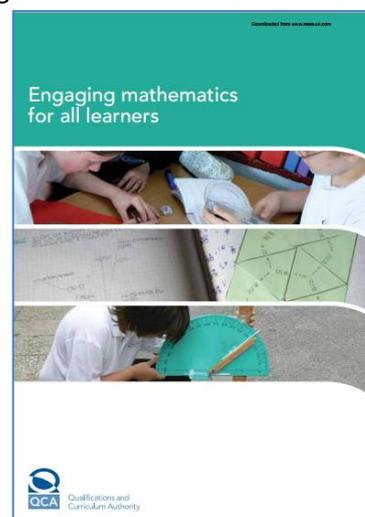
At the BETT show in January 2004 the Department for Education and Skills (DfES) launched a series of ICT support packs called “Key Stage 3 Embedding ICT @ Secondary” for each of the National Curriculum Subjects. At that time I chaired the Professional Development and IT committees for the Mathematical Association as well as the Curriculum IT Support Mathematics Group for the DfES. We contributed a range of materials for the maths pack as well as scripting five video Case Studies which were filmed, edited and distributed in the pack on a [CD-Rom](#). I have now converted them from flv video format to mp4 and uploaded them to the Computer Science Forum [DropBox](#) site for Winchester Science Centre STEM Ambassadors. They are in the new folder called “Data-capture and Modelling” which I am now developing along the lines of the similar “Electronics projects” folder in January. In the new folder is a sub-folder called “Case Study Videos”. Each of the five video case studies from 2004 has its own folder. These are:



1. CBR Davison: a girls’ school in Worthing introducing real-time graphing to a Y8 class
2. Data-Handling Ravenswood: a Y11 class in Bromley using graphing calculators for statistics
3. Geo-modelling Applemore: a Y9 class in Hampshire using geometry and algebra to model a problem
4. Geometry ALNS: a Y8 class at Admiral Lord Nelson in Portsmouth using dynamic geometry
5. Video-capture Arnewood: a Y11 class in New Milton modelling the flight of a badminton shuttlecock.

If anyone can locate the CD-Roms from the similar D&T and Science packs I will be happy to convert and upload these as well.

Here are some other possibly relevant resources from the National STEM Centre archive. First a QCA report [‘Engaging Mathematics for All Learners 11-19’](#) which has many case studies of project-based learning activities from a mathematical perspective but which could well be used in cross-curricular contexts. The video [‘Geometry from the Playground’](#) shows a Y9 class from Wildern School in Hampshire collecting data by measurements, photos and videos from the apparatus in a public playground, and using it in the classroom to analyse and model the data. Another, on [‘3D awareness’](#) involves Y9 students in London modelling structures such as the City Hall and the Gherkin. An example of a truly cross-curricular approach (science led) is the [‘Bath Bombs and Rockets’](#) video of a Y9 class at Crofton School, Hampshire. Another, involving sports, is the [‘Quadratic Equations’](#) clip filmed at Henry Cort School, Fareham. Different approaches to technology supporting mathematics teaching are shown in the [‘Secondary Maths Using ICT’](#) clip which includes 3D geometry. The video [‘Outdoor Trigonometry’](#) was filmed at Brune Park School in Gosport.



Another good source of materials came from the Science Learning Centre at Sheffield Hallam University. An engineering example is a KS4 project [‘A Bridge Too Many’](#). An extensive set of maths-led resources was developed through the [‘Cre8ate Maths’](#) project.