

## **“Mathematics online and mathematics mobile – where is all this going?”**

Douglas Butler [debutler@argonet.co.uk](mailto:debutler@argonet.co.uk)  
iCT Training Centre, Oundle (UK)  
[www.tsm-resources.com](http://www.tsm-resources.com)

*Douglas Butler will explore the Aladdin's cave of online resources that busy teachers can now call on to add a sparkle to their lessons. But now students can explore these too on their mobile devices, so the learning process is no longer restricted to the classroom. Exciting and challenging times! But how to ensure secure understanding?*

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Since around 1995, both the quantity and quality of online resources for mathematics teachers have risen dramatically. Faced with this staggering choice, teachers naturally need a lot of guidance. The TSM Resources website is one solution, breaking the massive spectrum into digestible categories, and this presentation will give a whistle-stop tour of some of the possibilities, including:

- web broadcasting: straight into the classroom
- resources for the busy teacher
- calendar of training events
- useful excel files for mathematics
- integer lists
- resources for dynamic software
- mathematics links and data from around the world

But wait – there is another player in this equation: increasingly, the students themselves have their own access to all this on a device that sits in their pocket. And they are creating their own online resources and sharing their learning experiences online.

This has the potential to change the dynamic of teaching and learning forever! And does the subject of mathematics stand to be affected by all this more than other academic subjects? What other subject comes close to expecting a detailed and proactive knowledge of spread-sheets, dynamic software, computer algebra systems and internet resources? What are the implications on In-service training?

Finally there is the burning question: does all this innovation allow teaching and learning to be more efficient and more effective? How can we be sure that the learners are not cutting corners? Is their understanding secure? After all, a spell checker is generally not much use if you can't spell ...