



# What's new on NRICH?

April 2011

## Key Stages 1 and 2

Early Years Foundation Stage Activities - We have published a set of trial activities designed for use in Early Years Foundation Stage settings. They have been developed with the current Early Years Foundation Stage profile assessment scales in mind. To access them, type 'EYFS' into the keyword search box. We would welcome your feedback.

## Key Stages 3 and 4

The NRICH Starter Problem Selection has been updated listing NRICH tasks according to key mathematical processes: <http://nrich.maths.org/6365> A larger collection of selected Key Stage 3 and 4 problems linked to the different areas of the curriculum can be found in our regularly updated Curriculum Mapping document: <http://nrich.maths.org/curriculum>

We have begun to add video to our problems and Teachers' Notes. For example, Tilted Squares has some clips of members of the NRICH team working with a class: <http://nrich.maths.org/2293&part=note>

Many of our favourite problems are now available as posters to download and print, ideal for displaying in classrooms. The full set is available at <http://nrich.maths.org/6840>

## STEM

Secondary (<http://nrich.maths.org/7266>) is now under development: we have been working with classroom maths and science teachers to extend the stemNRICH concept down to KS3 and 4. Material designed for classroom use will be added between now and September - you can use this to spice up your maths classroom or perhaps to engage with some cross-curricular activities.



## Key Stage 5

This year we have launched our Stage 5 student pages, where enthusiastic older students will find plenty of mathematical stimulation. A major part of this is our cycle of 52 weekly challenges (<http://nrich.maths.org/6497>) which give a shorter problem with plenty of rich extension possibilities for those aged 16+. These were created in response to teacher demand and are designed to fit easily into a typical scheme of work. To celebrate the launch of this we constructed a celebration page (<http://nrich.maths.org/5986>) containing the 20 favourite short problems as suggested by the Ask NRICH community.

There is lots of new material on the Stage 5 stemNRICH scientific mathematics section <http://nrich.maths.org/stemnrich>. Many of the resources are simply pure mathematics with a scientific flavour, whereas others contain a high level of both science and mathematics -- there will be something to enrich anyone studying mathematics and science post-GCSE.

We have developed University preparation pages (<http://nrich.maths.org/6783>) for anyone who is going on to study a STEM subject at university. These are ideal for students approaching the end of their school studies or to help prepare for university interviews.

We have developed 'interactive workouts' (<http://nrich.maths.org/7347>) for A-level Core and Further Mathematics - here you can hone your skills on dozens of key areas with randomised questions.

**... and NRICH TWILGO** (<http://nrich.maths.org/7445>) which combines the creativity of LOGO with the efficiency of Twitter – programmes have to be written in under 137 characters.

## ... and blogs

In addition to our 'Submit a solution' tab pupils can now feed back what they think of the activities. Separate blogs for primary (Infinitities), lower secondary (Irrationals) and post 16 (Fractals).