Mixed-attainment Conference London 27 January 2018

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Workshop Maths in Context

Over the last 10 years the Mathematics Education Centre at Sheffield Hallam has developed a number of free mathematics resources through a variety of curriculum development projects. All the resources have been designed with students of all attainment levels in mind, many focusing on KS3. This workshop will be a brief hands-on introduction to some of the Maths in Context materials, produced as part of the STEM Subject Choice and Careers Project. (The Maths in Context project supported The STEM Subject Choice and Careers Project.)

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| Time | What is happening. | Resources |
| 00-05 | Welcome and introduction* A number of projects over the years developing materials for use by students of any attainment. Two main projects:
	+ [*cre8ate maths*](http://cre8atemaths.org.uk/)
	+ [Maths in context](http://www.mathscareers.org.uk/article/maths-context/) (part of the STEM Careers project) which is what we will be looking at today.
* Both projects were primarily aimed at Keystage 3,

year 8 in particular |  |
| 05 - 09 | * Overview of Maths in Context

All of the materials are online. To find them type* [Maths in context](http://www.mathscareers.org.uk/article/maths-context/) Maths careers
* Or follow the link

<http://www.mathscareers.org.uk/article/maths-context/> There are 11 main activities and 4 sets of activities that can be used as starters.All of the activities come with a brief section of teacher’s notes with suggestions as to how the activities could be used.However, we think the best way for you to use the activities is for you to decide so basically ***use them as best you see fit.*** | Handout AMaths in Context – **list of activities** |
| 09 - 10 | * a brief look at a few of the activities, two of which are linked.
	+ Graphs that make sense (one of the starter activities)
	+ Artistic triangles and more artistic triangle
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| 10 – 18 | * Discuss in pairs each set of graphs in turn
* Choose the graph that best represents the statement in the box and write down your reasons
* Feedback to group/discussion
 | **Handout B****Graphs that make sense** activity |
| 18 - 55 | Artistic triangles courtesy of **Max Bill*** What do you see?
	+ Do the activity on the sheet.
	+ What can you say?
* Look at the four serigraphs. Create a serigraph of your own.
* What are the mathematical possibilities the students can get from these activities?
 | Coloured paperScissors GluesticksrulersHandout CSTEM Subject choice and careers **Artistic triangles****More artistic triangles** activities |
|  | END |  |