

MEI
Conference
2018

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Supporting Core Maths

Saturday 30 June 2018

09:00 to 10:00

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STEM Learning Maths Lead

Yorkshire Ridings Maths Hub Level 3 Lead

What we did

- Four afternoon sessions
 - An overview of Core Maths
 - Implementation 1
 - Implementation 2
 - Logistics

An overview of Core Maths

- Why Core maths exists
- The philosophy of core maths
- Why students should take core maths
- Why schools should offer core maths
- Pathways post 16

- Fermi Problems

- Problem Solving

Implementation 1

- How much does it cost to live independently in Leeds?
- Adapting activities
- Sources of resources

Implementation 2

- The task 'Patriotic Design'
- Assessing and tracking
- Designing an assessment model

Logistics

- Comparing the qualification
- Funding
- Core Maths supporting other subjects
- Student recruitment
- Timetabling
- Staffing

The Rationale for Core Maths

- Represents a major opportunity to increase participation in mathematics post-16.
- Meets the requirements of the new participation measure for mathematics.
- Provides exactly the problem-solving approaches and practical mathematical skills that are needed in life, work and further study.
- Provides support for the mathematical elements of many other areas of the post-16 curriculum – including new A-Levels.

A different approach to mathematics

Core Maths builds on GCSE mathematics, with a sharper focus on problem-solving skills. Students will consider and tackle mathematics in meaningful contexts, including through financial applications and statistical ideas that can support work in other subjects.

Although the course is mainly led by mathematics teachers, the involvement of other subject specialists is welcomed to ensure students appreciate the applications of mathematics in different subjects.

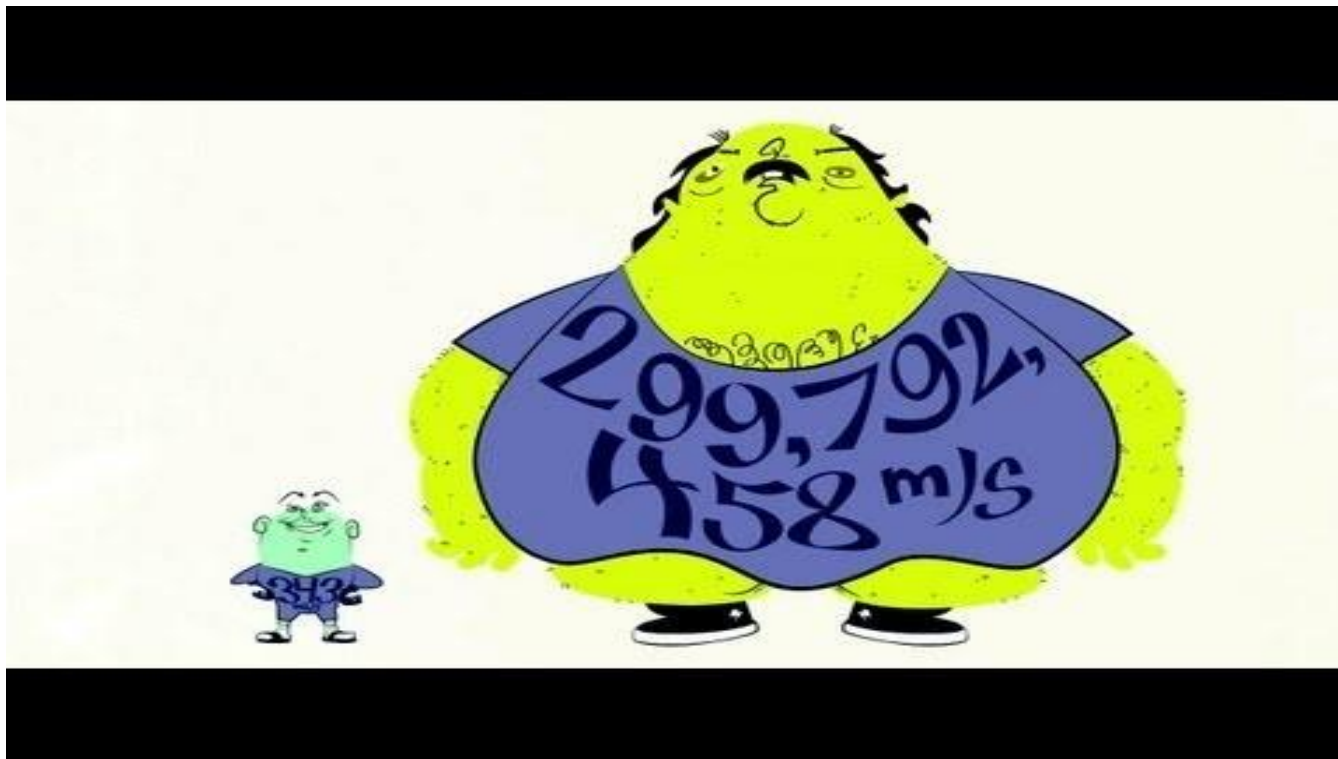
A different approach to mathematics

- How many piano tuners are there in Chicago?



A different approach to mathematics

- A clever way to estimate enormous numbers



Scams

- Consolidate their understanding of some aspects of probability such as expected frequencies and develop an understanding of expected return.
- Use mathematics to enable them to form opinions about the validity of offers which sound too good to be true.
- Objectives:
 - Be able to estimate an expected return from a game or investment.
 - Make financial, business, and personal choices based on sound evidence, giving consideration to alternative models.

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- <http://www.bbc.co.uk/programmes/b017k60v/features/information>
This link will take you to BBC watchdog top 10 scams list



Genuine Psychic

Would you like to know whether your next child will be a boy or a girl, before conception?

I am so confident that I can predict the gender of your next child that I will return your fee and give you an extra £50 if I'm not correct!!!

Fee £100 per prediction

Implementation, recruitment, exams

We discussed

- Timetabling: one year or two
- Recruiting students
- Who teaches Core Maths
- Funding
- Comparing the different exams

What next?

- Local Maths Hub
- AMSP
- STEM Learning

An introduction to core maths MY507 / A18

Start date	Duration	Location
19 Nov 18	3 Days	National STEM Learning Centre, University of York, York YO10 5DD View on Google Map

Summary

Core Maths is the new Level 3 qualification for students who achieved at least a Grade 4 (formerly a Grade C) in GCSE mathematics and wish to develop their practical skills so they may apply these in work, study or everyday life.

Core Maths is about students doing meaningful mathematical problems to increase their confidence in using mathematics to be better equipped for the mathematical demands of other courses, higher education and employment.

This course is run in conjunction with the Yorkshire Ridings Maths Hub, delivered by experienced core maths practitioners.

This is a residential course, fees include meals and accommodation for the duration of the course.

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www.stem.org.uk/my507