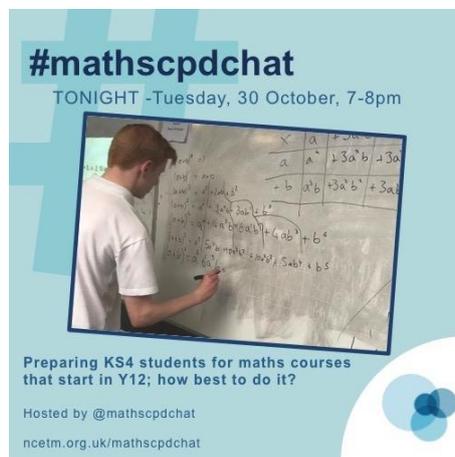


#mathscpdchat 30 October 2018

Preparing KS4 students for maths courses that start in Y12; how best to do it?

Hosted by [@mathscpdchat](https://twitter.com/mathscpdchat)

*This is a brief summary of the discussion – to see all the tweets, follow the hashtag **#mathscpdchat** in Twitter*



Some of the areas where discussion focused were:

- **GCSE levels required** to move on to particular courses in Y12 ... in the light of the 2018 GCSE maths grade boundaries;
- showing students **schemes of learning** for maths courses on offer in Y12 ... and **examples of mathematics** they would be developing and using ... asking how much is familiar/unfamiliar;
- building students' confidence, and thus willingness to pursue maths beyond GCSE, by **providing 'taster' lessons** in which some **new mathematics develops from familiar ideas**;
- how the **AQA further maths GCSE** builds on algebra knowledge from KS4 in an interesting way and prepares students well for further study;

- that some students might do **Core Maths in Y12 ... in-house enrichment sessions** to inform students about Core Maths courses;
- **Advanced Mathematics Support Programme (AMSP) Area Coordinators** doing in-house enrichment sessions to inform students about the **full range of maths course options** in Y12, including Core Maths courses;
- maths department arranging own **'introduction-to-A-level' week** in which students engage in lots of discovery-based learning activity;
- designing a **summer work programme (booklets)** that students do over the Summer break to **'keep them up to speed'** in preparation for Y12 maths courses on which they start in September;
- working with primary pupils (as early as Y2) to support them in overcoming barriers caused by lack of confidence ... including working with their parents/carers whose own attitudes to mathematics may be influencing the pupils;
- **comparing** the (lack of) support that **teachers themselves received** at this stage of their own lives with that **provided for students in 2018**.

An interesting 'conversation' of tweets, about STEM resources and Stemettes' events, followed from this tweet by [@mathscpdchat](#):



including this one from [Catherine van Saarloos](#):



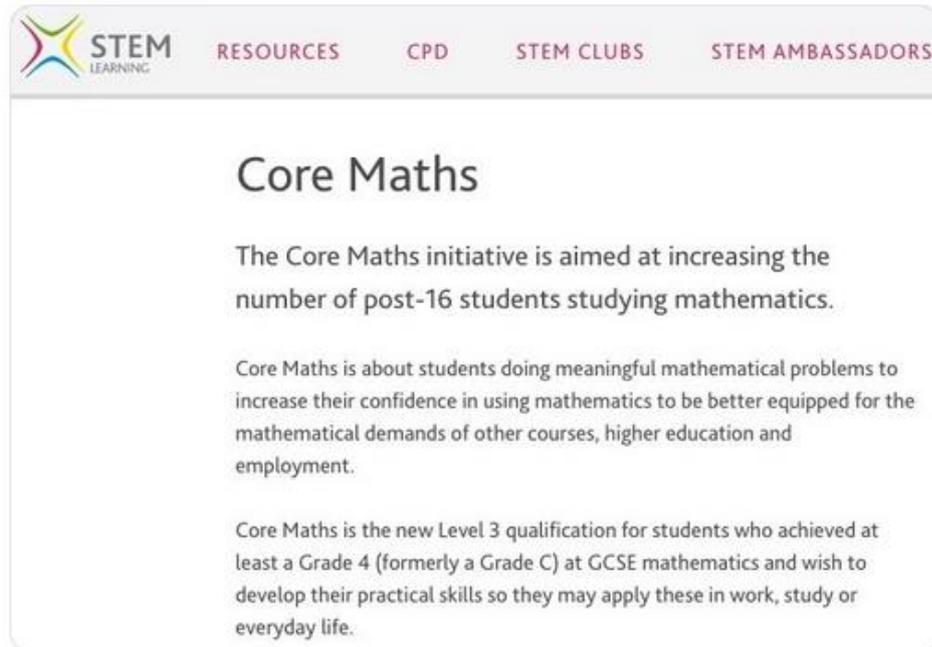
this from [@mathscpdchat](#):



mathscpdchat @mathscpdchat · 17h

Replying to @CoreMathsCat @Stemettes

STEM have some lovely resources re Core Maths: stem.org.uk/core-maths
#mathscpdchat



STEM
LEARNING

RESOURCES CPD STEM CLUBS STEM AMBASSADORS

Core Maths

The Core Maths initiative is aimed at increasing the number of post-16 students studying mathematics.

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.

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

this from [Catherine van Saarloos](#):



Catherine van Saarloos @CoreMathsCat · 17h

And they are great to use with KS4 as well #mathscpdchat

and this one from [Stemettes](#):



Stemettes ❤️ ★ # + @Stemettes · 17h

Replying to @CoreMathsCat @mathscpdchat

👋 Hello. Happy Tuesday. @Stemettes showing the next generation that girls do Science, Technology, Engineering & Maths (STEM) too at our free, fun, food-filled experiences.

 stemettes.org/#calendar

#STEM



 Stemettes ❤️ ★ # +

(to read the discussion-sequence generated by any tweet look at the 'replies' to that tweet)

Among the links shared were:

['Why study maths?' presentation](#) which consists of slides for an approximately 30 minute presentation for parents/carers about the importance of studying maths post-GCSE ... it is for students starting Core Maths, AS/A level Mathematics or AS/A level Further Mathematics qualifications from September 2018 onwards, shared by [Catherine van Saarloos](#)

[Calendar of events by Stemettes](#) which gives the dates and locations of free Stemettes events to be held during the next few months (November and December 2018 at the time of this discussion); their vision is that all girls will be able to make informed decisions about careers in Science, Technology, Engineering and Maths. Shared by [Stemettes](#)

[Core Maths](#) which is a source provided by the AMSP (Advanced Mathematics Support Programme) of information about, and resources for, Core Maths courses, shared by [@mathscpdchat](#)

[Core Maths on NRICH](#) which is a collection of tasks useful for teaching different aspects of Core Maths, shared by [@mathscpdchat](#)

[Underground Mathematics](#) which is a website containing rich resources for teaching A level mathematics, shared by [@mathscpdchat](#)

[Core Maths Qualifications](#) which is a part of the MEI (Mathematics Education Innovation) website that provides much support, advice and information about teaching and learning in relation to Core Maths courses, shared by [@mathscpdchat](#)

[Core Maths](#) which the part of STEM Learning that provides information about, and links to teaching materials for, Core Maths (courses), shared by [@mathscpdchat](#)