

#mathscpdchat 19 July 2022

Looking back over your maths teaching in 2021/22, and forward to 2022/23, what is important to you?

Hosted by [Charlotte Hawthorne](#)

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



The graphic features a large teal hashtag symbol on the left. The text '#mathscpdchat' is prominently displayed in white. To the right, a yellow box says 'Today' above the text 'Tuesday, 19 July, 7-8pm'. A central photograph shows a woman in a white lab coat sitting at a desk, looking at a computer monitor displaying a video conference. Below the photo, the text reads: 'Looking back over your maths teaching in 2021/22, and forward to 2022/23 what is important to you?'. Further down, it says 'Hosted by Charlotte Hawthorne @mrshawthorne7' and 'ncetm.org.uk/mathscpdchat'. The NCETM logo is in the bottom right corner.

The links shared during this discussion were:

[Barbie Bungee](#) which is a pdf file from the US National Council of Teachers of Mathematics (NCTM). This illustrated four-page document is presented as task instructions, addressed to students, describing how to conduct an experiment to test their own conjectures. It includes detailed guidance about recording and analysing results. It was shared by [Dani Quinn](#)

[Linear Sequences - Structured Variation Grid](#) which is an interactive grid from mathsbot.com, created by [Jonathan Hall](#). Cells of the grid 'contain' nth term expressions of sequences of the form $An + B$ (which expressions the user can choose to display or hide), and also four or five consecutive terms from anywhere in the sequence (which the user can also choose to display or hide). The sequences are arranged systematically across the two-way grid of cells, which can be seen/explored/extended in either direction. It was shared by [Jonathan Hall](#)

[Mathematics Trivia](#) which is a collection from [Transum](#) of 'sixty interesting facts about Mathematics that will surprise, entertain and educate you'. For example, did you know that the billionth digit of Pi is 9, that a polygon with 1,000,000 sides is a 'megagon', that the number 2 is the only prime number that doesn't have the letter 'e' in its name, that King's Cross station has a platform zero, that the volume of a deep-pan pizza with radius Z and depth A is $\text{Pi} \times Z \times Z \times A$, and so on ...? It was shared by [Transum](#)

[Ratio Questions by scaling - backwards fading](#) which is free-to-download editable teaching material designed by [Karen Hancock](#). It was shared by [Karen Hancock](#)

[WEBMATHS](#) which is a website containing links to maths resources, collected into (presently twenty-one) categories such as Virtual Textbook Algebra, 2022 Exam Resources, Useful maths websites, Artful Maths, Form time Activities, Education News, and Careers Using Maths. It was shared by [webmathscouk](#)

[Focus on...change ringing](#) which is an illustrated article in the archived NCETM Secondary Magazine 70. It provides ideas about how change ringing may be used to support some mathematics learning. It was shared by [Mary Pardoe](#)

A full illustrated summary of the discussions in this #mathsCPDchat follows.

The (linked-to-Twitter) screenshots below show the one long conversation, and two other tweets, that were generated by the host's first question. Teachers shared and discussed strategies and tasks that they use occasionally when they decide that, owing to unforeseen circumstances, students will benefit from experiencing a 'different' kind of maths lesson. In the following part of the summary only, you can **click on any screenshot-of-a-tweet to go to that actual tweet on Twitter**. The following tweets, represented by screenshots linked to Twitter, were in response to this question from [Charlotte Hawthorne](#):



Charlotte Hawthorne @mrshawthorne7 · 17h

Welcome to tonight's [#mathsCPDchat](#)

Let's kick things off with a reflection on this week...

How have you been coping in the heat? Any great activities, maths or otherwise that you've tried in the last few days? 🤔

Don't forget to include the [#mathsCPDchat](#) in your replies! 😊

In this long conversation, initiated by [Dani Quinn](#), and including [Charlotte Hawthorne](#), [Mary Pardoe](#) and [webmathscouk](#), teachers discussed ways in which they may interpret 'curriculum' and 'scheme of work (SOW)' differently ...



Dani Quinn @danicquinn · 17h

Replying to @mrshawthorne7

It made me realise we have far more days where, at the last minute, it becomes clear that you shouldn't continue with the curriculum or give important feedback, as so many are unexpectedly absent. Whether weather or illnesses, we need to be ready with last-minute alternatives



Charlotte Hawthorne @mrshawthorne7 · 17h

[#mathsCPDchat](#) an important point. Anyone else make any last minute changes? I'm normally the one teaching curriculum up until the last lesson of the last day but even I had to cave in this week. Anyone else?



Dani Quinn @danicquinn · 17h

Replying to @mrshawthorne7

A tricky element is organising it so that the kids don't get the same off-SOW experience multiple times (eg binary is awesome, as is exploring curves of pursuit or the four-colour theorem, but nightmare if they did it 3 months ago). Takes a lot of coordination! [#mathscpdchat](#)



Mary Pardoe @PardoeMary · 17h

Do you have a store/bank of 'off-SOW' tasks/ideas?
[#mathscpdchat](#)



Dani Quinn @danicquinn · 17h ...

It's made me want to develop one! It would ideally have quick intros for those unfamiliar, and key points for classroom management where they differ from typical lesson structure. It would be lovely to use staff CPD time on them but I think that is unrealistic [#mathscpdchat](#)



Charlotte Hawthorne @mrshawthorne7 · 17h ...

Replying to @danicquinn and @PardoeMary

This is such a good idea. Any activities that would definitely make it into your collection? [#mathsCPDchat](#)



Dani Quinn @danicquinn · 17h ...

I'd probably organise with tags such as low-energy / low-management / low-input / high-energy / high-input / relaxing / exciting so that people could select what suits the circumstance (eg today was definitely one for the low energy / relaxing category!). [#mathscpdchat](#)



Charlotte Hawthorne @mrshawthorne7 · 17h ...

Replying to @danicquinn and @PardoeMary

Really like the low/high energy idea! Sometimes you need to know what you're letting yourself in for [#mathscpdchat](#)



Dani Quinn @danicquinn · 17h ...

Ones that spring to mind without opening up my laptop are...

4-colour theorem

Curves of pursuit

Unfamiliar/offbeat constructions

Probability experiments

Generating Pythagorean triples

Volume/SA investigation with open cuboids from a fixed sheet

Barbie bungee 😊

[#mathscpdchat](#)



webmathscouk @Dids31 · 17h ...

Pythagoras Forts problem leading to spreadsheet use

Outdoor loci

Probability games - fair or unfair?

[#mathscpdchat](#)



Mary Pardoe @PardoeMary · 17h

...

Replying to @mrshawthorne7 and @danicquinn

Borrow some handbells from Music dept, then do some change-ringing ... students love it on my experience!

There is an article here (I think ... will find proper link later)

ncetm.org.uk/resources/27952

#mathscpdchat



Mary Pardoe @PardoeMary · 17h

...

Replying to @PardoeMary @mrshawthorne7 and @danicquinn

#mathscpdchat

I will find the proper link!

Focus on...change ringing

Bell ringing is a context in which students can explore connected mathematical ideas such as the concepts of *order*, *change* and *system*. They can make and test hypotheses, and generalise. And there are opportunities for cross-curricular links with music and physics.

Change ringing is a team activity in which bells are rung one after another rhythmically according to patterns that the ringers memorise. It originated in England around the end of the sixteenth century as a way of ringing church bells that was compatible with the design and construction of sets of bells in church towers, and that fulfilled particular social functions.



This traditional activity has survived – as [this school student explains](#) (if you use this video in a lesson you can decide whether or not to show your particular students the last part – When it went wrong).

Change ringing is also done on hand bells, either by church bell-ringers when practising,



(link provided above)



Dani Quinn @danicquinn · 17h

...

Definitely not one for the “low energy” or “relaxing” options 😊



Mary Pardoe @PardoeMary · 17h ...

How are these 'off-SOW'?!!!

[#mathscpdchat](#)

Aren't they nice tasks/things-to-do in 'normal' maths lessons?



Charlotte Hawthorne @mrshawthorne7 · 17h ...

Maybe if we had more time 😞...perhaps some of that is department inflicted but the national curriculum seems to have a lot of content which people often tell me is hard to fit in. Maybe? [#mathsCPDchat](#)



Dani Quinn @danicquinn · 17h ...

Exactly. Hence distinguishing between the SOW (I hate the phrase non-negotiable, so perhaps better framed as “agreed minimum offer for all groups”) and the curriculum (where appropriate, the extra depth or texture that a teacher might plan in). [#mathscpdchat](#)



Vicky Osborne @CheerVix · 17h ...

Replying to [@danicquinn](#) [@mrshawthorne7](#) and [@PardoeMary](#)

Curves of pursuit were everywhere today in our secondary's maths dept 🥰



Charlotte Hawthorne @mrshawthorne7 · 17h ...

Same!



Charlotte Hawthorne @mrshawthorne7 · 17h ...

Replying to [@danicquinn](#) and [@PardoeMary](#)

I think I need to know more about Barbie bungee 😊 [#mathsCPDchat](#)



Dani Quinn @danicquinn · 17h ...

I think [@fawnpnguyen](#) or one of her US maths pals first wrote about it (sorry I can't remember who). I developed it from here to do after linear graphs (with cheap barbie knock offs), although now I would save it for a low-attendance, high-energy lesson illuminations.nctm.org/uploadedfiles/...

(link provided above)



Mary Pardoe @PardoeMary · 17h ...

Not totally 'off-SOW' though?! [#mathscpdchat](#)

But is anything that's maths-related?



Dani Quinn @danicquinn · 17h ...

I had originally thought “off curriculum” and changed to “off SOW”. I see the SOW as the mechanism/journey to deliver the priorities of the curriculum. Barbie bungee is great fun but not a priority for delivering that part of the curriculum (IMO). [#mathscpdchat](#)



webmathscouk @Dids31 · 17h

...

Time to fit everything in is sometime a deciding factor. Not "off-SOW", but sometime a nice to do if possible. [#mathscpdchat](#)



Mary Pardoe @PardoeMary · 17h

...

Sometimes some/many/all students learn more when you take a risk time-wise by moving away for a bit from the 'norma/usual/must-do' tasks? [#mathscpdchat](#)



Mary Pardoe @PardoeMary · 1h

...

I received this interesting writing from Peter Lacey, [@ecarda1](#), after the [#mathscpdchat](#) had ended last night ...

Schemes of Work

If the mathematics curriculum is the territory to be explored, then a scheme of work is a journey planner, stopping off at particular locations on the territory and learning about them, as well as taking and appreciating the roads that connect them.

I can do something like this with my car Sat Nav. I put in a destination and stopping off points, and, hey presto, the journey is planned. It is pre-set. I undertake the journey as planned.

My friend has a different journey planner app called "Waze". She puts in the destination and stopping off places. What makes this so clever is that, whilst on the journey, real time information is used to make modifications to the journey: an interesting event at a location, or an accident to avoid, or an alternative route between locations. Fellow travellers can put this information onto the platform.

I think my scheme of work journey planner should be like "Waze", so that it can be tweaked *en route* to match the needs and interests of my learners. And also giving them a say in our navigation.

... and Charlotte's first question prompted two more contributions from [webmathscouk](#):



webmathscouk @Dids31 · 17h



Replying to @mrshawthorne7

Just finished Day 2 or 4 days Artful Maths enrichment. Resources from webmathscouk.wordpress.com Lots of links on the artful.matgs tab.

#mathscpdchat



webmathscouk.wordpress.com

Home

A page of maths resources

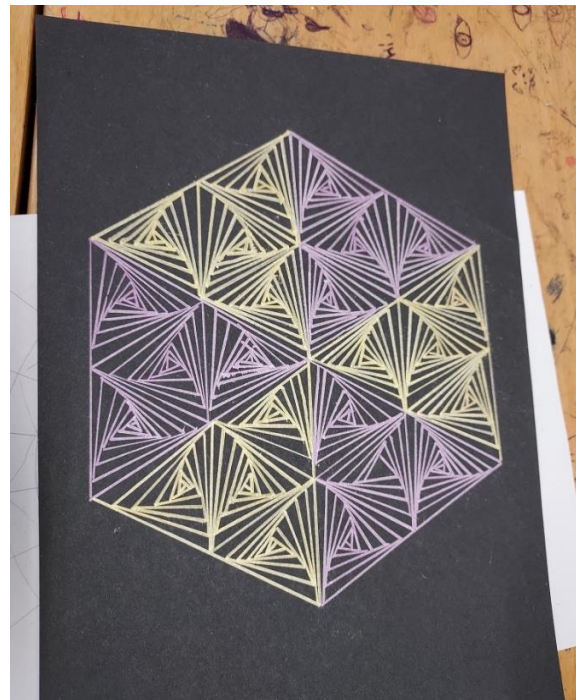
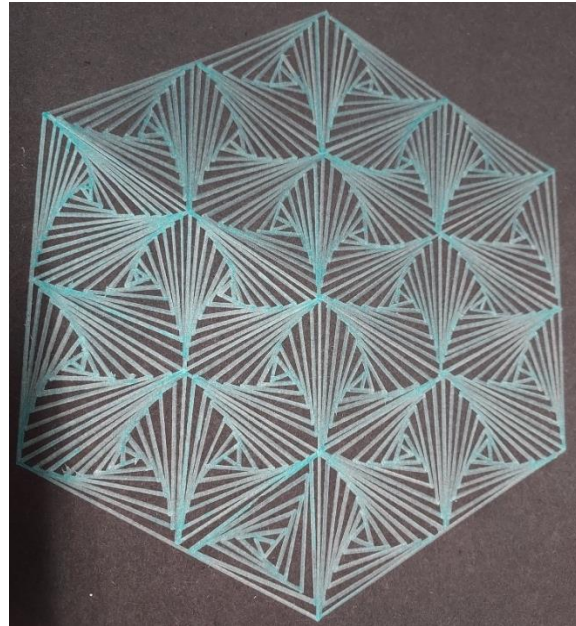


webmathscouk @Dids31 · 17h



#mathsconf29 #mathsart





Charlotte's second question ...



Charlotte Hawthorne @mrshawthorne7 · 18h

...

Here's the one you've been waiting for...

How has your mathematics teaching gone this year?

★ Tell me a highlight

✓ Have you changed something about your practice that has gone well this year?

[#mathsCPDchat](#)

... prompted discussions on seven themes and two single replies. It generated this positive conversation ...



Vicky Osborne @CheerVix · 18h

...

Replying to @mrshawthorne7

I had the same year 8 class as last year. They were hard work last year and I felt a little dismayed getting the same set again. But together we smashed it and I'm so proud of them!



Charlotte Hawthorne @mrshawthorne7 · 20h

...

Assuming MOST people have their timetables for next year now (surely?!)

So...this is a nice reminder that even if you have some classes you aren't

overjoyed with they can be much better than you expect :) [#mathscpdchat](#)

(I know it's after hours but ah well 😊)



Anthony Shaw @ShawMaths · 20h

...

Replying to @mrshawthorne7

It's what I tell my team when they get a class they're not overjoyed by!

It's a cliché but the most challenging classes and pupils are often the most rewarding (and the most fun!).

[#mathscpdchat](#)

... and this ...



webmathscouk @Dids31 · 19h

...

Replying to @mrshawthorne7

Back to full time math teaching after many years on SLT and teaching Y7/8

for the first time in a long time. Lots of use of mini whiteboards with

diagnostic questions and I do/ you do scaffolding. Finding opportunities for

enrichment for students. [#mathscpdchat](#)



Charlotte Hawthorne @mrshawthorne7 · 19h ...

How have you found the change? Did anything surprise you? Will you miss anything about being part of SLT? #mathsCPDchat



webmathscouk @Dids31 · 19h ...

Change needed to create space to look after elderly mum. Not really surprised how much I loved teaching maths full time again, but I had forgotten this. Miss the challenge of leadership sometimes, but time with mum is precious. #mathscpdchat



Charlotte Hawthorne @mrshawthorne7 · 19h ...

That's so important! I love being in the classroom too! #mathsCPDchat

... this chat in which 'Mathsfeasts' were mentioned ...



Mr C @chawnerwarner · 19h ...

Replying to @mrshawthorne7

☀️ taking children from my school to a Mathsfeast in a very grand school setting

✅ stopped worrying about fitting everything but the kitchen sink into my lessons



Mary Pardoe @PardoeMary · 19h ...

Can you describe the Mathsfeast briefly? #mathscpdchat



Mr C @chawnerwarner · 19h ...

A comp where schools take up to 2 teams of 4. There are then different individual rounds that get children to think mathematically without giving them typical maths questions. Example this year was where they had to use reasoning with minimal info to match heights to buildings



Charlotte Hawthorne @mrshawthorne7 · 19h ...

Replying to @chawnerwarner

I love a maths feast!

Love that you've stopped worrying about that. Was there anything you can pinpoint that made you worry about it less? Do you have a structure that you have to stick to when creating and delivering lessons?

#mathsCPDchat



Mr C @chawnerwarner · 19h ...

Just realising that children take longer to do bigger tasks than you realise! My structure is now breaking concepts down into much smaller chunks and then giving children smaller periods of practice on each resulting in (hopefully) less overload at once. #mathscpdchat

... this reminder ...



Jonathan Hall @StudyMaths · 16h

Replying to @mrshawthorne7

Have I ever mentioned Structured Variation Grids to you?

mathsbot.com/grids/linearSe...

Linear Sequences - Structured Variation Grid ⌵

Rows: Columns: a-init: b-init:

Highlight

		$4n - 1$	$4n$			
		3, 7, 11, 15	4, 8, 12, 16			
			$3n$			
			3, 6, 9, 12			
			$2n$			
			2, 4, 6, 8			
			n			
			1, 2, 3, 4			
			$0n$			
			0, 0, 0, 0			
			$-n$			
			-1, -2, -3, -4			
			$-2n$	$-2n + 1$		
			-2, -4, -6, -8	-1, -3, -5, -7		

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Charlotte Hawthorne @mrshawthorne7 · 8h

🤔 maybe once or twice...

... this chat about making booklets ...



Karen @karenshancock · 19h

Replying to @mrshawthorne7

Booklets - but most importantly the option this gives to build in extension work so that I can ensure everyone does sufficient of a task.

Ss know to go on the extension tasks and not just the next page.

Front page of booklet lists the page numbers for extensions.

[#mathscpdchat](#)



Charlotte Hawthorne @mrshawthorne7 · 19h ...

Tell us more please, Karen. Especially those that didn't get to hear you talk about them at the teachingTogetherLeeds meet. How long do they take to create? Where does inspiration come from for your tasks? Practical tips for those wanting to try this approach? [#mathsCPDchat](#)



Karen @karensancock · 18h ...

Usual process is start with something like this:

And then decide which need examples (worked in advance with self explanation prompts or worked live)

And decide on tasks - using all sorts, Corbett, Don Steward, Interwoven etc and other resources I've been using for years.

45 Quadratics 4/5 lessons

① Form & solve in context

② C.T.S → link to turning points

③ Solve by C.T.S.

④ Quadratic formula



Karen @karensancock · 19h ...

I edit it all together in Ppt - and then use a pdf editor to add page numbers.

Usually I get 4 - 8 lessons from a pack. I aim for one per topic.

Extension activities often from Don Steward or Open Middle or Nrich. [#mathscpdchat](#)



Karen @karensancock · 18h ...

Replying to @mrshawthorne7

Practical tips: Definitely include page numbers - this is vital.

Add any answer pages to the Ppt and hide them or create a different section name so they don't print.

Often a landscape page is a better option.

[#mathscpdchat](#)

... this conversation about corrections and coloured pens ...



Cat @CMaths3 · 18h

...

Replying to [@mrshawthorne7](#)

Do nows. Explaining much better why we do them. Check every students book. No opt out (if they don't know an answer they must copy the question). Green pen work modelled on visualiser. Corrections check by teacher walking round. Much better retrieval [#mathsCPDchat](#)



Charlotte Hawthorne @mrshawthorne7 · 18h

...

Sounds great. What advice would you give to someone who wanted to make the start of their lesson more like this? Either as a department or just for their own classroom? [#mathsCPDchat](#)



Cat @CMaths3 · 18h

...

Replying to [@mrshawthorne7](#)

Model green pen work in an exercise book on a visualiser. Students don't get what corrections should look like unless you are v clear. Also, no opt out. Usually students don't copy the qs. But if they say they don't know then they have to. This makes not trying more effort.



Anne White @ALWhite09 · 18h

...

Replying to [@CMaths3](#) and [@mrshawthorne7](#)

Is there a way I can remind myself to do this in Sept using Twitter. Great idea



Charlotte Hawthorne @mrshawthorne7 · 18h

...

What is green pen work? (Sorry if I've missed this 😊) Is it what you call it when you go through the work and they need to correct it? I think it's what I would call purple pen work if so but want to make sure I understand.

[#mathsCPDchat](#)



Cat @CMaths3 · 18h

...

Yes we do our corrections in green pen

:



Karen @karenshancock · 18h

...

I would say - Do Nows don't need to look pretty - Mine are handwritten mainly, with Mathsbot or MathsWhiteboard website if I haven't had time to handwrite it. [#mathscpdchat](#)

... and this discussion about some resources for A level teaching:



Dr Anna @Dr_anna_maths · 19h

...

Replying to [@mrshawthorne7](#)

I am excited to be teaching A-level again for next year. Need to brush up my Further Maths over the summer [#mathscpdchat](#)



webmathscouk @Dids31 · 18h

...

I am using the ODPD resources to work through some A Level content to refresh and reinvigorate my A level teaching. Pretty sure they have FM ODPD courses as well. [#mathscpdchat](#)



Dr Anna @Dr_anna_maths · 18h

...

Ooh, thank you. I have used those before but had forgotten about them, good tip! [#mathscpdchat](#)



TM @tm_maths · 20h

...

Replying to [@Dr_anna_maths](#) and [@mrshawthorne7](#)

I recommend following [@Whitehughes](#) for questions, [@TLMaths](#) playlist, I've got past paper written solutions for Edexcel which I'd be happy to DM.



Dr Anna @Dr_anna_maths · 19h

...

Thank you, that would be brilliant! I have taught lots of it on OCR, and on OCR MEI, but not Edexcel and not since the spec changes so I'm out of date! [#mathscpdchat](#)

Finally, there were two 'single' replies to Question 2 (which is shown again as a reminder):



Charlotte Hawthorne @mrshawthorne7 · 18h

...

Here's the one you've been waiting for...

How has your mathematics teaching gone this year?

🌟 Tell me a highlight

✅ Have you changed something about your practice that has gone well this year?

[#mathsCPDchat](#)



MrTaylorMaths @MrTaylorMaths2 · 18h

...

Replying to [@mrshawthorne7](#)

🌟 Use of language 'additive inverse', 'commutativity', 'decomposition', 'partitioning'

✅ Extra emphasis on vocab, particularly into Latin and Greek roots and related words. 'Perimeter' = peri+meter = around+measure
'Peri' like periscope, perinatal, or period.

[#mathsCPDchat](#)



Vicky Osborne @CheerVix · 20h

...

Replying to @mrshawthorne7

Definitely running a full day of mastery training with the advocates in all the secondary programmes together. The amount of thinking and collaboration we had to do to make that work taught me a lot. Feel very lucky to be in such a great team! [#mathscpdchat](#)

Charlotte's next question ...



Charlotte Hawthorne @mrshawthorne7 · 19h

...

Has anything surprised you this year in your maths teaching? Maybe you discovered the 1089 'trick' for the first time...maybe you realised that something works that you never thought would...maybe it's something else. I'd love to hear.

[#mathsCPDchat](#)



... prompted the following example of an unexpected outcome (link provided above) ...



Karen @karensancock · 19h

...

Replying to @mrshawthorne7

Ratio scaling. I was really anti this method - I much prefer algebra myself, but @nathanday314 was very passionate about it, so I figured I should try to get my head round it. Gamechanger! [#mathscpdchat](#)



Charlotte Hawthorne @mrshawthorne7 · 19h

...

Do tell us more...with examples if possible :) [#mathsCPDchat](#)



Karen @karensancock · 19h

...

Would this do: :-)

kshancock.co.uk/lessonresource...

[#mathscpdchat](#)

Ratio and Proportion

Ratio Questions by scaling - backwards fading

[Editable version for download - worked solutions included](#)

Jamie has 80 beads in blue and green in a ratio 5 : 3
They are then given additional beads.
They are given the same number of both colours and now have a ratio 13 : 9
How many beads were they given?

$B : G$	Total	
5 : 3	8	} × 10
50 : 30	80	

Before		After	
$B : G$	Diff	$B : G$	Diff
50 : 30	20	13 : 9	4
			} × 5
		20	

Number
Ratio and Proportion
Algebra
Shape and Space
Data Handling

...and many people have this year been surprised by a wide variety of facts ... which you may or may not know!



Dr Anna @Dr_anna_maths · 19h

...

Replying to [@mrshawthorne7](#)

It's trivial, but today I learnt that the name of every odd number contains the letter 'e' 🤔 #mathscpdchat



Charlotte Hawthorne @mrshawthorne7 · 19h

...

Nothing too trivial, I quite like this one. I also like knowing the number, when written in words in English, which has its letters in alphabetical order. Anyone else got any nice little bits of maths trivia? #mathsCPDchat



Dr Anna @Dr_anna_maths · 19h

...

Replying to [@mrshawthorne7](#)

I think transum calls that alphanumbetical, but I suspect that's not a real word! #mathscpdchat



Transum @Transum · 9h

...

Yes I made it up I'm afraid - though I guess all words were made up by someone! Anyway here is my collection of Maths Trivia



transum.org

Mathematics Trivia

77 interesting facts about Mathematics that will surprise, entertain and educate you.

(link provided above)



Alan Wood 3.5% ❤️ @alwoodswork · 9h

...

Replying to @mrshawthorne7

Algorithms and logarithms are anagrams of each other and two of the longest words in the English language without repeating letters.



Alan Wood 3.5% ❤️ @alwoodswork · 9h

...

Replying to @mrshawthorne7

One + twelve = two + eleven (anagrams)



Ben Paddon @nebnoddap · 19h

...

Replying to @mrshawthorne7

No written number from zero to one hundred contains the letter a



Ben Paddon @nebnoddap · 19h

...

Replying to @mrshawthorne7

Another is that if you had a piece of rope around the circumference of the earth, and you wanted it to hover one foot away from the earth, you'd only need to extend the rope by 6.28 feet.

Same for a piece of rope wrapped around the circumference of the moon, or tennis ball.



Chris White @onechriswhite · 16h

...

Replying to @mrshawthorne7

Between 113 and 127 there are 13 consecutive non-primes.



Ben Paddon @nebnoddap · 18h

Replying to @mrshawthorne7

Forgot the palindromic products of 1s as well!

1e.

1x1=1

11x11=121

111x111=12321

Works all the way up to 111,111,111x111,111,111=12345678987654321



audioUprising @audioUprising · 6h

Replying to @mrshawthorne7

I marked A-level this year. I found a lite of students wrote LATE on their int by parts Q. Turns out it's a great way to remember what should be U and what should be V'

Charlotte tweeted her fourth question ...



Charlotte Hawthorne @mrshawthorne7 · 20h

Half-way point...let's change the focus to next year.

What do you want to change next year? (Or do better)

AND... what advice would you give to an ECT?

Kind of like an academic new-years resolution.

[#mathsCPDchat](#)

* good ✨
* things ☆
* are *
* coming ✨

... halfway through the hour of the chat, but, because most contributors were still responding to questions already asked, only the following resolutions and advisory thoughts were shared:



webmathscouk @Dids31 · 20h

...

Replying to [@mrshawthorne7](#)

Build/gather more challenge activities/resources to share. Really pleased with new website of free resources, continue to add to this. Advice - don't beat yourself up, don't try to reinvent the wheel, keep it simple, ask for help, use mini whiteboards every day. [#mathscpdchat](#)



Karen @karenshancock · 20h

...

Replying to [@mrshawthorne7](#)

I want to focus on the A Level tasks that I use - I'm teaching the side of the FM course I've not taught for many years, so I want to resource it to my liking.

[#mathscpdchat](#)



Karen @karenshancock · 20h

...

Replying to [@mrshawthorne7](#)

My advice to an ECT would be make sure you are ahead of the students in terms of working through questions (before the lesson or worst case during the lesson) - you want to be able to say "Don't do Q5" before it derails your lesson. [#mathscpdchat](#)



Jay Timotheus @jaytimotheus · 20h

...

Replying to [@mrshawthorne7](#)

Advice for an ECT... Join a professional association, e.g. [@ATMMathematics](#). Read, and keep reading other maths teachers' and maths ed. researchers' perspectives.

The host's last question ...



Charlotte Hawthorne @mrshawthorne7 · 20h

...

I'm going to squeeze in one more question which I hope people will continue to add to after the hour's up (time has ran away with me tonight!)

What's the best CPD you've done this year? 🌟

Any CPD plans for over the summer? (e.g. book recommendations?) 🌞📖

[#mathsCPDchat](#)

... generated articulation of the fact that usually an outcome for the teacher of teaching, and preparing to teach, is learning oneself ...



Karen @karensancock · 20h

...

Replying to [@mrshawthorne7](#)

For me the best CPD I've done is planning CPD to deliver to others, it makes me stop and think clearly about why I'm doing what I'm doing and refine it.

[#mathscpdchat](#)



Vicky Osborne @CheerVix · 19h

...

Replying to [@mrshawthorne7](#)

Definitely running a full day of mastery training with the advocates in all the secondary programmes together. The amount of thinking and collaboration we had to do to make that work taught me a lot. Feel very lucky to be in such a great team! [#mathscpdchat](#)



Alex ~ Vic Maths Notes @VMN_alex · 15h

...

Replying to [@karensancock](#) and [@mrshawthorne7](#)

Same thing I get from writing all my notes for vicmathsnotes.weebly.com Forces me to make what's in my head more concrete [#mathscpdchat](#)



Charlotte Hawthorne @mrshawthorne7 · 20h

...

This is so true! I've had many opportunities to do the same this year including my [@NCETM](#) PD lead accreditation (which I got told I passed today 🎉)

And through presenting at maths conferences too. It really helps you to focus in on what made the difference! [#mathsCPDchat](#)



webmathscouk @Dids31 · 20h

...

Congratulations.

... which, of course, may also be a result of interacting with ideas and tasks from other teachers:



webmathscouk @Dids31 · 20h

...

Replying to [@mrshawthorne7](#)

Linked a lot of free CPD ideas on here as well.
webmathscouk.wordpress.com/teaching-and-l...
[#mathscpdchat](#)

webmathscouk.wordpress.com
Teaching and Learning
Complete Maths CPD Shorts EEF Geogebra Training
Booklet (@Mr_Rowlandson) Innerdrive Jamie Clark...

(link provided above)



webmathscouk @Dids31 · 20h

...

Replying to [@mrshawthorne7](#)

MathsConf#29. First maths CPD I have managed to get to in a long time after my move from SLT to teaching maths full time. Also ODPD from AMSP. [#mathscpdchat](#)



Mr Day @MrDayMaths · 10h

...

Replying to [@mrshawthorne7](#)

[@pgiljedahl](#) book - Building Thinking Classrooms in Mathematics



Mr Bishop @MrBishop_Maths · 19h

...

Replying to [@mrshawthorne7](#)

Either the maths hub HOD working group or the complete maths conference/head of maths conference. Been really good for me this year as a new Hod 👍 [#mathsCPDchat](#)

The host ended this chat with:



Charlotte Hawthorne @mrshawthorne7 · 20h

...

Wow! That hour flew by!

Thank you SO MUCH for all of your wonderful contributions to [#mathsCPDchat](#) this evening, and all year! That's it for the summer now so have a wonderful break everyone! 🍹

Please feel free to continue threads, I've loved hearing all of your reflections!

