

#mathscpdchat 15 February 2022

What do you love about maths and maths teaching?

Hosted by [Martyn Yeo](#)

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



#mathscpdchat **Today**
Tuesday, 15 February, 7-8pm

*It's a wonderful feeling
when you finally crack a problem
– it's one of the best feelings in life.*
Prof Sir John Kingman

What do you love about
maths and maths teaching?

Hosted by Martyn Yeo @martynyeouk
ncetm.org.uk/mathscpdchat



The links shared during this discussion were:

[How to involve hard-to-reach parents: encouraging meaningful parental involvement with schools](#)

which is a Research Associate report by a headteacher, Clare Campbell, from the National College for School Leadership. It was shared by [Martyn Yeo](#)

[Person of Interest \(2x11\) "Pi"](#) which is a YouTube video in which the attitude to the maths some students are 'being taught' suddenly changes! It was shared by [Piers Young](#)

[Maths Teaching Resources](#) which is a very big/full padlet created and compiled by [Ben Sinclair](#). The material is grouped under the following headings: maths-teaching books, general teaching books, websites, blogs, podcasts, videos, tech resources, research, posters, tasks and prompts. It was shared by [Ben Sinclair](#)

[Dip and Pick Maths Problem Solving Cards](#) which is a collection of problems intended to 'challenge children to develop a deeper understanding of maths at different levels'. It was shared by [Kayleigh Pearson](#)

[Maths White Board](#) which is a website containing a wide variety of material designed to support maths teaching. It was shared by [Catherine Edwards](#)

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

Martyn tweeted this poll at the start of the chat:



Martyn (He/Him) @martynyeouk · 15h

...

I always like to kick off with a poll so share your thoughts and feelings about your Maths Teaching this half term... [#mathscpdchat](#)



17 votes · Final results

Martyn's first question ...



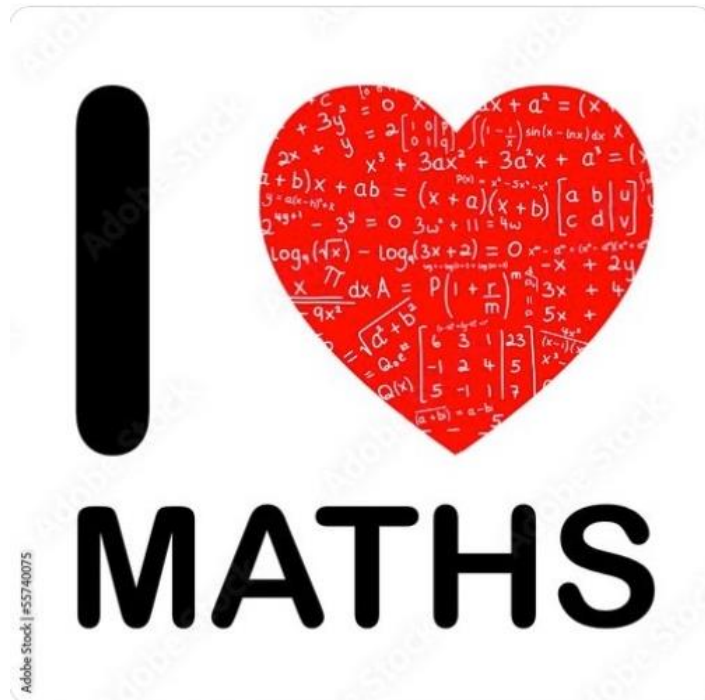
Martyn (He/Him) @martynyeouk · 15h

...

Q1: Let's start sharing the Love!

What do you Love about Maths as a subject?

[#mathscpdchat](#)



mathscpdchat and The NCETM

... generated a conversation in which Twitter was mentioned, and teaching students of different ages to love maths was discussed ...



Catherine Edwards @Edwards08C · 15h

...

Replying to @martynyeouk @mathscpdchat and @NCETM

I love the creativity and the fact that there are multiple ways to get to the same point. [#mathsCPDchat](#)



Martyn (He/Him) @martynyeouk · 15h

...

Agreed - so many people have a perception that maths is not creative. All about the right and wrong!

What has made it for you to be different?

[#mathscpdchat](#)



Catherine Edwards @Edwards08C · 15h ...

Teaching maths and Twitter. The way I learnt maths was very procedural, but coming up to 20years of teaching maths has shown me lots of different ways to approach the same thing. [#mathsCPDchat](#)



Martyn (He/Him) @martynyeouk · 15h ...

Agreed - that is how I have learnt to love the subject - teaching it!

Can I ask what age group you teach? [#mathscpdchat](#)



Catherine Edwards @Edwards08C · 15h ...

I teach 11-16, but have dabbled in A-level and All through over the years. I've been doing a lot of teaching KS3 nurture (working around y2 level) over recent years

[#mathsCPDchat](#)



Martyn (He/Him) @martynyeouk · 15h ...

Thanks - I wondered if that made a difference to your love of the subject because you teach it all the time

[#mathscpdchat](#)



Catherine Edwards @Edwards08C · 15h ...

I think it does change your relationship, but the difference between teaching 7 set six where we are working on the concept of $\frac{1}{2}$ and set 1 y 9 where we are covering surds, then 11 set 5 with GCSE revision and even though it's all maths they are completely different [#mathcpdchat](#)



Martyn (He/Him) @martynyeouk · 15h ...

Tough questions now - which do you love most out of those?

[#mathscpdchat](#)



Catherine Edwards @Edwards08C · 15h ...

Today 7 set 6, tomorrow we'll see , depends which way the wind blows 🌀



Martyn (He/Him) @martynyeouk · 15h ...

I guess I wondered if you love it more with pupils who work on harder stuff or is it more satisfying to teach those who struggle? [#mathscpdchat](#)



Martyn (He/Him) @martynyeouk · 15h ...

Lol! That's why I'm the one asking the question! They both have pros and cons to them as you have said [#mathscpdchat](#)



Catherine Edwards @Edwards08C · 15h ...

Please don't make me pick! I like having a variety on my timetable.


[#mathscpdchat](#)

 **Martyn (He/Him)** @martynyeouk · 15h ...
I guess that's what is nice about primary - its always a mix! #mathscpdchat

 **Catherine Edwards** @Edwards08C · 15h ...
But I'd have to do non maths subjects and be nice and smiley all day. All the primary teachers I know are really lovely, I'm not sure I could reign in the sarcasm! Plus you all work way harder in primary #mathscpdchat


 **Martyn (He/Him)** @martynyeouk · 15h ...
That is very kind of you to say. I have huge admiration for secondary. Dealing with hormonal teenagers! You guys are amazing! #mathscpdchat

... and one of Catherine's comments ...

 **Catherine Edwards** @Edwards08C · 15h ...
Today 7 set 6, tomorrow we'll see , depends which way the wind blows 🌀

... generated more observations:

 **Yorkshire Steve** @Yorkshire_Steve · 16h ...
Replying to @Edwards08C @martynyeouk and 2 others
If I look back over my career the pupils I remember most are those that started off saying they "can't do maths" and ended up being successful. Dayne, Chris, Sophia, Pete,

 **Yorkshire Steve** @Yorkshire_Steve · 16h ...
At least 1 of those is now a teacher. She contacted me out of the blue a few years after leaving school to say her lecturer had asked them to talk about the non-parent who had had the biggest influence on her life. She wanted me to know she had talked about me. #proud

 **Catherine Edwards** @Edwards08C · 16h ...
You should be!

 **Yorkshire Steve** @Yorkshire_Steve · 16h ...
Replying to @Yorkshire_Steve @Edwards08C and 3 others
I've loved teaching others. The first A level further maths group that really flew in my first school when we moved from 11-16 to 11-18 for example. But my memories of those individual pupils are hazier.

In this reply to Martyn's first question 'recreational maths' was discussed:



Matt Man @mr_man_maths · 15h ...

Replying to @martynyeouk @mathscpdchat and @NCETM

The variety of topics no matter whatever level. Personally, I love it when we have opportunities to do some recreational maths. @EmathsUK did a survey a few months ago and admittedly I don't spend enough time doing this. #mathscpdchat



Martyn (He/Him) @martynyeouk · 15h ...

Tell us more about recreational maths? What is that? #mathscpdchat



Matt Man @mr_man_maths · 15h ...

Pretty much doing something that you enjoy doing. For some it might be artistic drawings such as those from the wonderful @cOmplexnumber. For me, it's reviewing back to A Level Further Maths which reminds me of my undergraduate days at university! #mathscpdchat



Matt Man @mr_man_maths · 16h ...

For some, they might do a training course. The TAM course by @Advanced_Maths and @MEIMaths are great for those that want to extend their subject knowledge for A Level Maths. #mathscpdchat



Martyn (He/Him) @martynyeouk · 15h ...

I met @cOmplexnumber and did some maths art - was great fun and even better when pupils don't recognise it as maths to start! #mathscpdchat

Connections between teaching maths and teaching sport prompted discussion ...



MrHawesMaths @HawesMaths · 15h ...

Replying to @martynyeouk @mathscpdchat and @NCETM

As a sports person I like how the approaches to coaching a sport and teaching maths can be mirrored. I love that there are multiple strategies to solve problems and I love the logical processes one must go through #mathscpdchat



Martyn (He/Him) @martynyeouk · 15h ...

Wow! I've never made that connection before! Sports and Maths are not usually things people put together! Thanks for sharing the love! #mathscpdchat



MrHawesMaths @HawesMaths · 15h ...

I am always making connections between the two. Especially when I am outside coaching sports. I will get a maths point in when I can. Students think I am obsessed with maths #mathscpdchat



Martyn (He/Him) @martynyeouk · 15h

...

That's great that you get your passion across! #mathscpdchat

Can you give an example of how you get maths in sport?



MrHawesMaths @HawesMaths · 15h

...

we talk about going to ground in rugby, there are many different options to complete the phase just like when you are doing multiplications, there are many different options. We talk a lot about isolating skills in maths and coaching and stringing it together... 1/2 #mathscpdchat



MrHawesMaths @HawesMaths · 15h

...

To complete the problem (score the goal etc.) then there is the physical maths that takes place on the pitch.

Scores, angles, speed, measures, angles, simple algebra, Pythagoras and trig. #mathscpdchat

... and prompted more illumination of connections between sport and maths:



MrHawesMaths @HawesMaths · 15h

...

we talk about going to ground in rugby, there are many different options to complete the phase just like when you are doing multiplications, there are many different options. We talk a lot about isolating skills in maths and coaching and stringing it together... 1/2 #mathscpdchat



Yorkshire Steve @Yorkshire_Steve · 16h

...

Replying to @HawesMaths @martynyeouk and 2 others

#mathscpdchat when I'm coaching football I do likewise. The girls often just 'want to play' but I reinforce that we'll isolate key bits and work on those - making a well timed near post run, getting in front of the defender, meeting the ball on the move, making a clean connection



Yorkshire Steve @Yorkshire_Steve · 16h

...

Build these up until the combination becomes a coherent thing in itself. Put it into a game situation with adjusted rules to build opportunities for repeated practice and success in a 'live' scenario

Watch with joy on Sunday when it comes to fruition. The joy on the players faces



Yorkshire Steve @Yorkshire_Steve · 15h




...

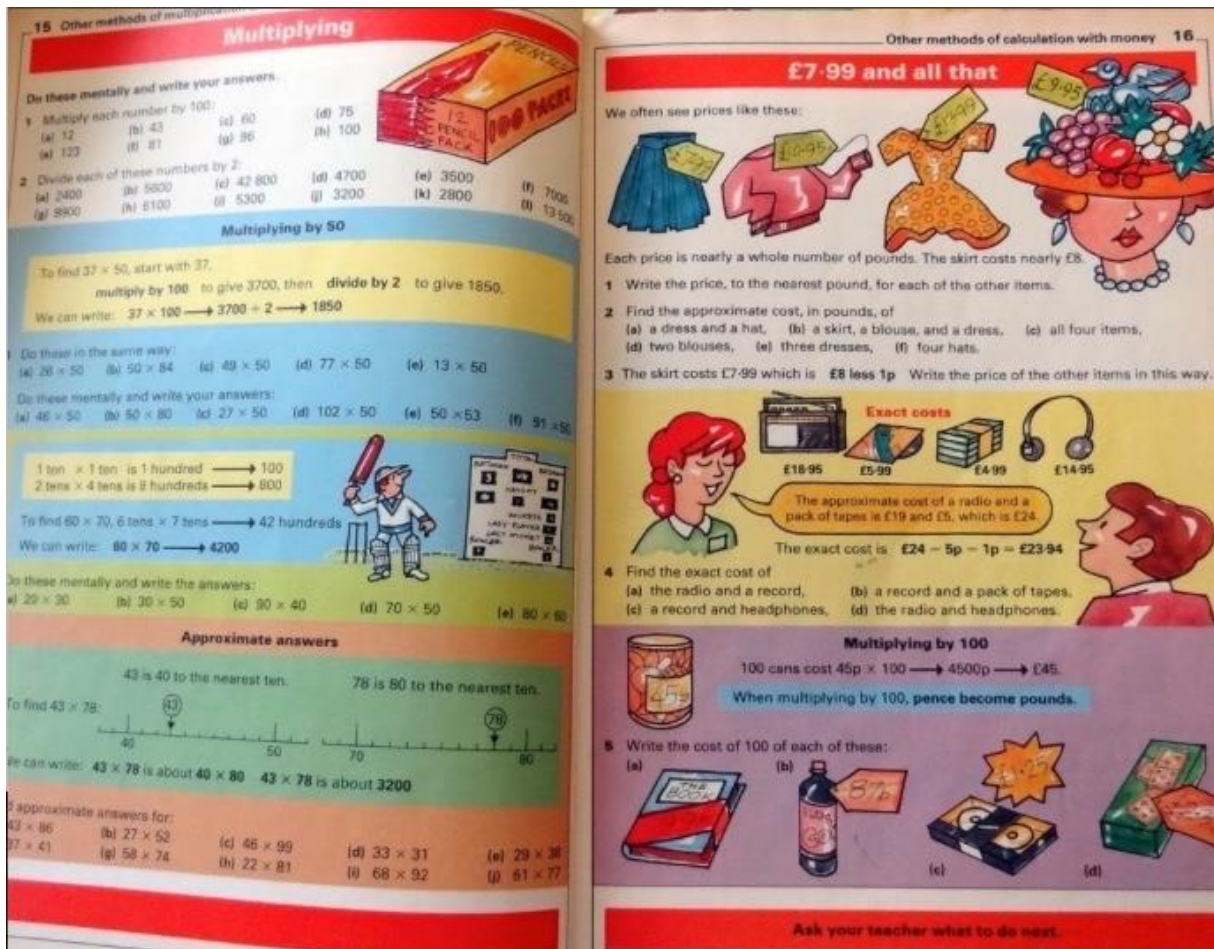
Key to not just 'do the drills' but explain why each is important. The logic behind it. How it builds on the earlier steps. Where it is going. The big picture.

This conversation focused on love of maths from the point of view of supply teaching:

-  **nicrich** @geordiecat2012 · 15h ...
Replying to @martynyeouk @mathscpdchat and @NCETM
I was on supply today in Y1 and lots of them cheered when I said it was time for maths, telling me that they love maths.
-  **Martyn (He/Him)** @martynyeouk · 15h ...
And do you love maths? #mathscpdchat
-  **nicrich** @geordiecat2012 · 15h ...
Sometimes!
-  **Martyn (He/Him)** @martynyeouk · 15h ...
You are in a safe space...tell us more #mathscpdchat
-  **nicrich** @geordiecat2012 · 15h ...
I like it better when I teach KS1 and Early Years- feels more threatening teaching it to Uks2. Then again I feel like that about teaching most things in UKS2! I really liked maths at primary school, but not so much at Secondary school and I think that influences me even now.

A teacher compared his students' experiences of school maths with his own:

-  **Marc Hayes** @mrmarchayes · 15h ...
Replying to @martynyeouk @mathscpdchat and @NCETM
I love the connections, the relationships between number and space in geometry, and I love teaching children to believe that they can do and understand maths (after my own experience was SMPG and being told to re-read the textbook over and over again 😂) #mathscpdchat
-  **Martyn (He/Him)** @martynyeouk · 15h ...
What is SPMG please #mathscpdchat
-  **Marc Hayes** @mrmarchayes · 15h ...
The scheme we did at school... we all worked through different colour booklets or textbooks depending on our 'ability'... I never remember any actual inputs but it was before the National Strategies #mathscpdchat



Martyn (He/Him) @martynyeouk · 15h

Thanks for sharing. This certainly doesn't look like it would install love for the subject [#mathscpdchat](#)

This video was popular ...



Piers Young @piersyoung · 14h

Replying to [@martynyeouk](#) [@Yorkshire_Steve](#) and 2 others

Bit cheesy but this ...



youtube.com

Person of Interest (2x11) "Pi"

Amazing scene. I loved it! Hope this doesn't get taken down. People need to see this!



Martyn (He/Him) @martynyeouk · 19h

Never seen this before - but now im in love! [#mathscpdchat](#)

... and there was this 'single' comment:



Piers Young ❤️ @piersyoung · 14h

Replying to @martynyeouk @Yorkshire_Steve and 2 others

Not sure any subject is both as totally practical and bizarrely beautiful .

Replies to this question ...



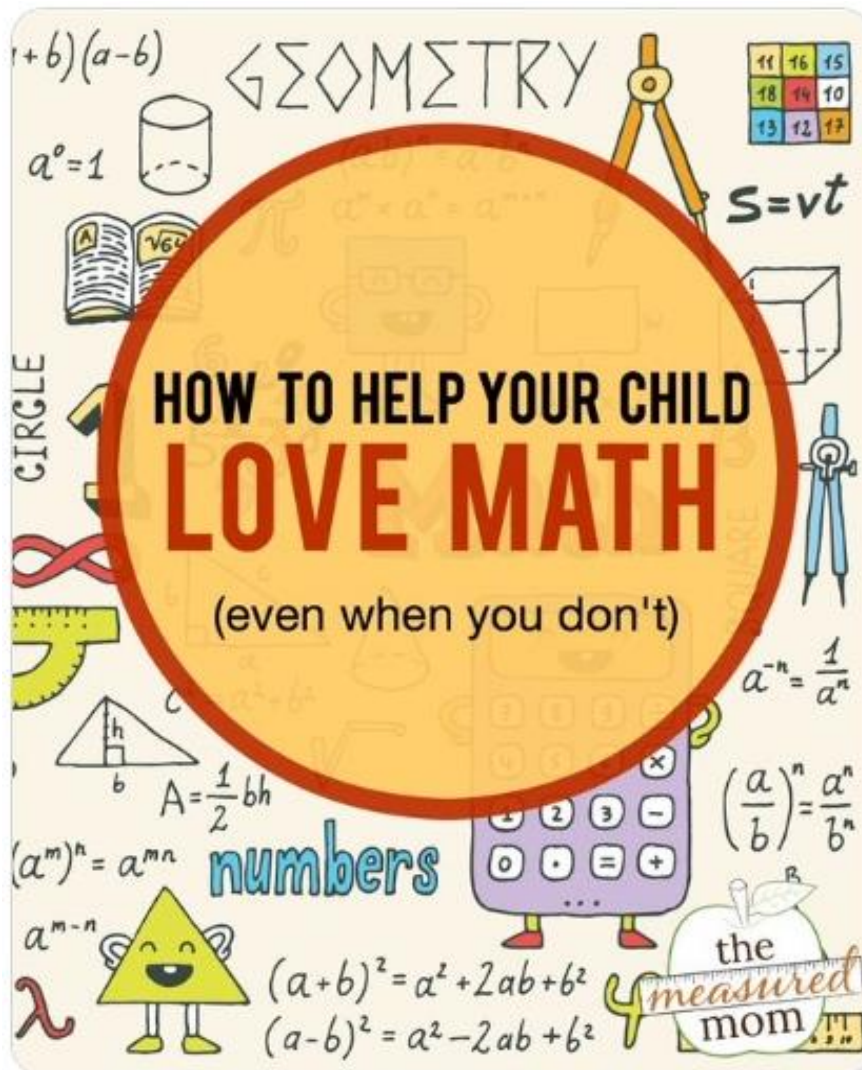
Martyn (He/Him) @martynyeouk · 17h

Now to think how to share the love further...

Q3:

How do you get others (children, parents, other teachers) to love Maths?

[#mathscpdchat](#)



mathscpdchat and The NCETM

...included this conversation ...



Yorkshire Steve @Yorkshire_Steve · 16h

...

Replying to [@martynyeouk](#) [@mathscpdchat](#) and [@NCETM](#)

People *tend* to love things they feel successful at. It must be genuine success (not so easy you don't get the rush. The success need not be immediate but the rush when you experience it will be real.



Yorkshire Steve @Yorkshire_Steve · 16h

...

Replying to [@Yorkshire_Steve](#) [@martynyeouk](#) and 2 others

So the question, at least in part, comes down to how we can maximise the chances of a student being successful.



Martyn (He/Him) @martynyeouk · 16h

...

Can you give a real example of this happening? [#mathscpdchat](#)



Yorkshire Steve @Yorkshire_Steve · 16h

...

Thinking about those pupils I listed earlier. They had got into the loop of sitting assessments that just showed what they couldn't do. Each reinforced their view that they couldn't do maths. Stripped them back so that the assessments were better matched to where they were.



Yorkshire Steve @Yorkshire_Steve · 16h

...

They started scoring more highly. They felt better about their maths. They started to work harder because they saw they could be successful. So the assessments could ramp up in challenge but they could still be successful. Success breeds success. At least in their cases.



Yorkshire Steve @Yorkshire_Steve · 16h

...

These were assessments to inform my teaching so ungraded. It was all about "we have been studying these things. Let's see how much we've learned. Let's see what we need extra practice with" rather than "let's see your current grade" or whatever.

... and this one ...



MrHawesMaths @HawesMaths · 17h

...

Replying to [@martynyeouk](#) [@mathscpdchat](#) and [@NCETM](#)

Passion for the subject and the adaptive strategies to progress a student from where they are (even if it is a baby step) progress is progress and they need to see that. [#mathscpdchat](#)



MrHawesMaths @HawesMaths · 17h

...

My biggest bugbear is where teachers/parents say that they can't do maths or hate numbers etc. (had to ask a HT to stop mentioning they hated numbers and was bad at maths) the need to promote and build confidence is essential. [#mathscpdchat](#)



Catherine Edwards @Edwards08C · 17h

...

I'm the only STEM person on the leadership team and the terror maths can instill in highly qualified professionals! But no one would think it was ok if I didn't write documents

... and this ...



Catherine Edwards @Edwards08C · 17h

...

Replying to [@martynyeouk](#) [@mathscpdchat](#) and [@NCETM](#)
Stealth! [#mathscpdchat](#)



Martyn (He/Him) @martynyeouk · 17h

...

Ha ha! But sometimes shouting it from the rooftops too? [#mathscpschat](#)



Catherine Edwards @Edwards08C · 17h

...

Yes, and being enthusiastic about it. As you said earlier people don't see it as creative, or something they can do. Kind reassurance goes a long way too [#mathscpdchat](#)

... and this conversation ...



Marc Hayes @mrmarchayes · 17h

...

Replying to [@martynyeouk](#) [@mathscpdchat](#) and [@NCETM](#)

Teach for success... make the basics and principles accessible and straightforward with modelling and explanation to develop procedural and conceptual fluency... which then prepares all for richer problems and challenge [#mathscpdchat](#)



Marc Hayes @mrmarchayes · 17h

...

And remember that regular and repeated practice is vital throughout the learning process to benefit confidence and motivation [#mathscpdchat](#)



Martyn (He/Him) @martynyeouk · 17h

...

Such good advice - how do we help parents and other teachers be successful too? [#mathscpdchat](#)




Marc Hayes @mrmarchayes · 17h

...

Replying to [@martynyeouk](#) [@mathscpdchat](#) and [@NCETM](#)

Definitely by promoting the belief that maths is for everyone and practising the building blocks really does help! [#mathscpdchat](#)

 **Richard Dare** @dare_richard · 17h ...
Yes, I always feel we should do more to communicate our approaches with parents [#MathsCPDChat](#)

 **Mary Pardoe** @PardoeMary · 17h ...
Do you ever get them in to DO MATHS together and with you?
I've found that that can be very effective!
[#mathscpdchat](#)

 **Martyn (He/Him)** @martynyeouk · 17h ...
Absolutely! Before the pandemic! It can break down so many barriers by getting parents to do maths with their children! [#mathscpdchat](#)

... there was another response to Richard's comment ...

 **Richard Dare** @dare_richard · 17h ...
Yes, I always feel we should do more to communicate our approaches with parents [#MathsCPDChat](#)

 **Catherine Edwards** @Edwards08C · 17h ...
Our journey into knowledge organisers is beginning to support this. I think we could do it more. One the other hand I'm a little wary of overly prescriptive methods because it can hinder the creativity. [#mathscpdchat](#)

... and it generated more discussion ...

 **Richard Dare** @dare_richard · 17h ...
Yes, I always feel we should do more to communicate our approaches with parents [#MathsCPDChat](#)

 **Richard Dare** @dare_richard · 17h ...
We publish information and direct to online content. I wonder what good practice is out there for doing more?
We have information evenings for parents around revision strategies in Y11. I wonder if we could have something in KS3?
[#MathsCPDChat](#)

 **Martyn (He/Him)** @martynyeouk · 17h ...
I have read a research document about reaching hard to reach parents....
[assets.publishing.service.gov.uk/government/upl.](https://assets.publishing.service.gov.uk/government/uploads)
[#mathscpdchat](#)

 **Richard Dare** @dare_richard · 17h ...
Oh, thank you very much!
I don't know that our parents are hard to reach, just maybe we should do more!

... and yet more:



Richard Dare @dare_richard · 17h

...

Yes, I always feel we should do more to communicate our approaches with parents [#MathsCPDChat](#)



Martyn (He/Him) @martynyeouk · 17h

...

Replying to @dare_richard @mrmarchayes and 2 others

Do you manage to do this? [#mathscpdchat](#)



MrHawesMaths @HawesMaths · 17h

...

I have produced course maps that show what topics are being taught. sent to parents and students have them in their books. I have also created courses on Dr Frost that mimic our SOW so parents can access and see what is going on and have a cheeky practice themselves. [#mathscpdchat](#)



Richard Dare @dare_richard · 17h

...

Very good! 👍

The screenshots below show conversations generated by two of Martyn's questions. The first sequence shows aspects of teaching maths that are loved by contributors, and that were shared and discussed during the chat. The second sequence reveals some much loved and used resources, many of which were mentioned rather than linked-to, so they are indicated (and can be found from their descriptions) in addition to the links that were shared and are listed at the start of this summary. **Click on any of the following screenshots-of-a-tweet to go to that actual tweet on Twitter.**

The first sequence (below) of conversations and replies was generated by this question from [Martyn Yeo](#):



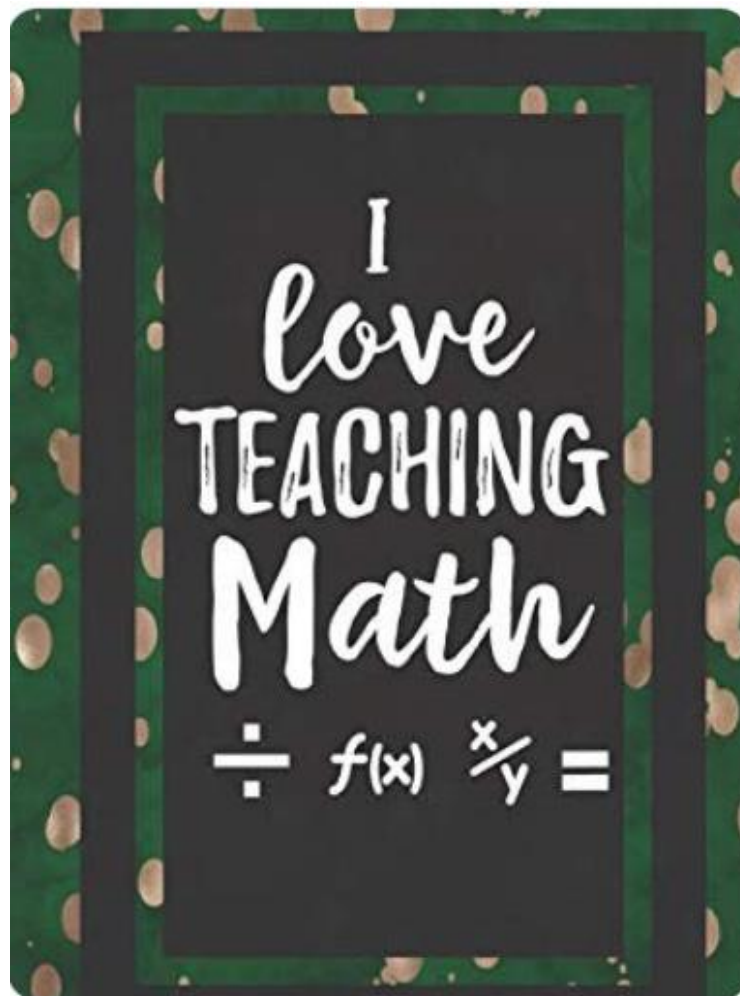
Martyn (He/Him) @martynyeouk · 16h

...

Taking the love further...

Q2: What do you love about teaching Maths?

[#mathscpdchat](#)



Some responses formed conversations, such as this one between [Sam Blatherwick](#), [Martyn Yeo](#) and [Rob Southern](#) ...



Sam Blatherwick @blatherwick_sam · 16h

...

Replying to @martynyeouk

Where to start?

- 1) unexpected answers in lessons
- 2) thinking about questions to ask
- 3) you can see the effect of your feedback within lessons [#mathscpdchat](#)



Sam Blatherwick @blatherwick_sam · Feb 15

..

Replying to @blatherwick_sam and @martynyeouk

- 4) genuine problem solving
- [#mathscpdchat](#)



Martyn (He/Him) @martynyeouk · Feb 15

...

Replying to @blatherwick_sam

I'm going to make you choose now- which do you love the most?
[#mathscpdchat](#)



Sam Blatherwick @blatherwick_sam · Feb 15

..

When you give students problems and they give you perspectives and approaches you hadn't considered. It's so exciting when that happens in a lesson and you are able to capture it and take the class with you
[#mathscpdchat](#)



Rob Southern @mrsouthernmaths · 16h

...

Yes to number 1. I love it when a student comes up with a solution that's better than mine. It happened today with adding and subtracting standard form.
[#mathscpdchat](#)



Sam Blatherwick @blatherwick_sam · 5h

...

What did they do, what did you do?



Rob Southern @mrsouthernmaths · 4h

...

Q: $(3 \times 10^5) + (5 \times 10^4)$

I suggested columns at first, leading to visualising place value.

They did $(3 \times 10^5) + (0.5 \times 10^5)$.

If the power of ten is the same, you can just add the numbers and keep the power of ten.

... in which there was also a reply from [Amie Coley](#) to [Sam Blatherwick](#)'s first tweet above ...



Sam Blatherwick @blatherwick_sam · 16h

...

Replying to @martynyeouk

Where to start?

- 1) unexpected answers in lessons
- 2) thinking about questions to ask
- 3) you can see the effect of your feedback within lessons [#mathscpdchat](#)



Amie Coley @alcmaths · 15h

...

Replying to @blatherwick_sam and @martynyeouk

Having that 'ahhh I see' moment of realisation. You can't get that high from anywhere else [#mathscpdchat](#)

... and this shorter conversation between [Mr Hawes](#) and [Martyn Yeo](#):



MrHawesMaths @HawesMaths · 16h

...

Replying to @martynyeouk

I love that after 15 years of teaching I still pick up new ways to explain and approach topics. I love that resources are ever evolving. [#mathscpdchat](#)



Martyn (He/Him) @martynyeouk · 16h

...

I was going to ask about resources later - do you want to share some love for a resource? [#mathscpdchat](#)



MrHawesMaths @HawesMaths · 16h

...

Currently loving @DrFrostMaths and @draustinmaths . Been brilliant to utilise this year. [#mathscpdchat](#)

... and this short conversation between [Mary Pardoe](#), [Mr Hawes](#) and [Martyn Yeo](#):



Mary Pardoe @PardoeMary · 16h

...

Replying to @martynyeouk

I have always loved trying to find ways of putting pupils in some control of what happens in a lesson ... e.g. by inviting their examples, perhaps asking for another, and another, and another ... and 'building' on what THEY offer in order to support their learning.

[#mathscpdchat](#)



MrHawesMaths @HawesMaths · 16h

...

I have three whiteboards at the back and sometimes (need to don more often) I will split them into groups and ask them to collaborate and solve some problems (5 markers or ao3) the differences between the responses and the learning and leading THEY do is brilliant [#mathscpdchat](#)



Martyn (He/Him) @martynyeouk · 17h

...

Replying to @PardoeMary

I love having children come up and be the teacher - makes my life easier!
[#mathscpdchat](#)

Other people tweeted replies which did not immediately generate conversations, such as these replies from [Catherine Edwards](#), [Matt Man](#), [Mary Pardoe](#), [Simon Ball](#) and [Miss S](#):



Catherine Edwards @Edwards08C · 16h

...

Replying to @martynyeouk

I love that even though the content of the subject is fairly constant, how I teach, connect and understand it is always changing.
Infact I think not having to learn new content all the time lets you think deeply about the schema and pedagogy
[#mathscpdchat](#)



Matt Man @mr_man_maths · 16h

...

Replying to @martynyeouk

Making up questions on the spot when extending a topic. For example, I was teaching solving equations with expanding brackets. Lots were getting it easily so extended to geometry such as finding the missing side with given area. Interleaving keeps us in our toes! [#mathscpdchat](#)



Mary Pardoe @PardoeMary · 16h

...

Replying to @martynyeouk

I loved seeing PUPILS being surprised! And finding/devising tasks giving opportunities for them to learn by being surprised. And interacting with them as the 'moved' towards being surprised!
[#mathscpdchat](#)



Simon Ball @ballyzero · 16h

...

Replying to @martynyeouk

Being in front of young minds and helping them get closer to their dreams.
[#mathscpdchat](#)



Miss S @missspe3 · 14h

...

Replying to @martynyeouk

Watching the awe and wonder when there is more than one possibility
[#mathscpdchat](#)



Mary Pardoe @PardoeMary · 16h



Replying to @martynyeouk

I do want to get this in ... I have loved sometimes being able to teach WITH another teacher ... not with another teacher as an observer ... teaching a lesson together, having planned it together, then reflecting on it together, learnt a lot, and LOVED doing it!

[#mathscpdchat](#)

This next sequence (below) of conversations and replies was generated by this question (Martyn's last question) from [Martyn Yeo](#):



Martyn (He/Him) @martynyeouk · 18h

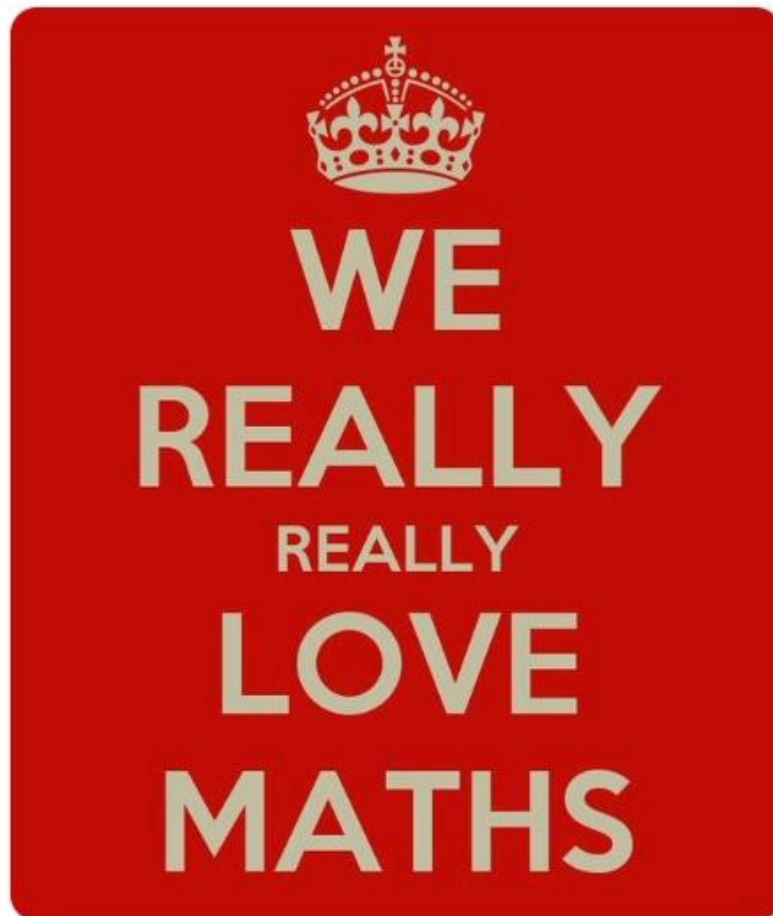


Final bit of love sharing...

Q4: What Maths Resources do you love?

Website, book, manipulative, podcast etc

[#mathscpdchat](#)




[mathscpdchat](#) and The NCETM

Some responses formed very short 'conversations', such as this one between [Catherine Edwards](#) and [Richard Dare](#)...

 **Catherine Edwards** @Edwards08C · 17h ...
 Replying to @martynyeouk @mathscpdchat and @NCETM
 So many!
 Current favourite things

1. Beadstrings
2. Numicon
3. Dienes blocks
4. Mathswhiteboard.com
5. Complete maths CPD


Perennial favourite mathsbot and of course [#mathscpdchat](#)

 **Catherine Edwards** @Edwards08C · 17h ...
 Replying to @martynyeouk @mathscpdchat and @NCETM
 I think we're really lucky as mathematicians that there are so many generous people out there. Certainly seems to be more than other subjects (but that could just be my echo chamber) [#mathscpdchat](#)

 **Richard Dare** @dare_richard · 17h ...
 Yes, it's amazing how many really inspired resources and approaches people share out of their love for maths and maths teaching. Astounding and heartening.
[#MathsCPDChat](#)

... and this between [Rob Southern](#) and [Mr McA](#) ...

 **Rob Southern** @mrsouthernmaths · 17h ...
 Replying to @martynyeouk @mathscpdchat and @NCETM
 To be honest, the best resource I have is my Maths Twitter friends.
[#mathscpdchat](#)

 **Mr McA** @McA1maths · 16h ...
 🙌🙌🙌

... and this between [Simon Lewis](#) and [Ann Elise Record](#) ...

 **Simon Lewis** @RunSimonRun · 1h ...
 Replying to @martynyeouk @mathscpdchat and @NCETM
 Cuisenaire Rods. EY kids love playing with them and discover some much 'by accident'.



Ann Elise Record (she/her) @AnnEliseRecord · 1h

...

I totally agree with [#cuisenaire](#) rods! They are so powerful and versatile for various sets of numbers throughout the Ss journeys! They can help move Ss from counting to additive to multiplicative to proportional reasoning!

... and this between [Marc Hayes](#) and [Kieran Mackle](#) ...



Marc Hayes @mrmarchayes · 17h

...

Replying to [@martynyeouk](#) [@mathscpdchat](#) and [@NCETM](#)

I'm a huge fan of [@NCETM](#) , [@gareth_metcalf](#) , [@Kieran_M_Ed](#) 's podcast and book, [@SarahFarrellKS2](#)'s daily puzzles, and of course the incredible Mathsbot website by [@StudyMaths](#) [#mathscpdchat](#)



Kieran Mackle @Kieran_M_Ed · 5h

...

Thanks, Marc. Some great pointers here!

... and this between [Nikki Arkinstall](#) and [Martyn Yeo](#):



Nikki Arkinstall @ArkinstallNikki · 17h

...

Replying to [@martynyeouk](#) [@mathscpdchat](#) and [@NCETM](#)

Everything everyone else has said.

We have just purchased a range of great maths picture books which are fab.

I also like Topmarks for great maths online games like Hit the button etc.

[#mathscpdchat](#)



Martyn (He/Him) @martynyeouk · 17h

...

Ohhh! Do check out [@MathsStories](#)



Nikki Arkinstall @ArkinstallNikki · 17h

...

Will do. Thanks

There were also these 'single' responses from [Alice Ward-Gow](#), [Ben Sinclair](#), [Amy How](#), [Martyn Yeo](#), [Kayleigh Pearson](#), [Rob Southern](#) and [David Helsby](#):



Miss Ward-Gow @mcwardgow · 17h

...

Replying to [@martynyeouk](#) [@mathscpdchat](#) and [@NCETM](#)

Too many to list 🏠 [@draustinmaths](#) [@ChrisMcGrane84](#) [@MathsPadNicola](#) [@mrbartonmaths](#) are my go-to at the moment 😊 [#mathscpdchat](#)



Ben L Sinclair @mathsacharya · 5h



Replying to @martynyeouk @mathscpdchat and @NCETM

I collect my favourites here:



padlet.com
Maths Teaching Resources
Made with Padlet



Amy How @rekenrek101 · 15h



Replying to @martynyeouk @mathscpdchat and @NCETM

I love rekenreks! I don't think anyone would be shocked to hear me admit that.



Martyn (He/Him) @martynyeouk · 19h



I love @joboaler and always show her videos to my class to help them get a growth mindset #mathscpdchat



Kayleigh Pearson @Mrs_P_Deputy · 3h



Replying to @martynyeouk @mathscpdchat and @NCETM

Maybe I made these once upon a time tts-group.co.uk/dip-and-pick-m 🌟🌟



tts-group.co.uk
Dip and Pick Maths Problem Solving Cards
Challenge children to develop a deeper understanding of maths at different levels.



Rob Southern @mrsouthernmaths · 18h



Replying to @martynyeouk @mathscpdchat and @NCETM

Underground Maths for A level. Incredible stuff.

[#mathscpdchat](#)



Mr Helsby @MrHelsbyMaths · 16h



Replying to @martynyeouk @mathscpdchat and @NCETM

Don Steward, an absolute mine of fantastic resources and then mathsbot for virtual manipulatives (prime number tiles a favourite), although nothing can beat the real thing with @CuisenaireCo ! [#mathscpdchat](#)

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