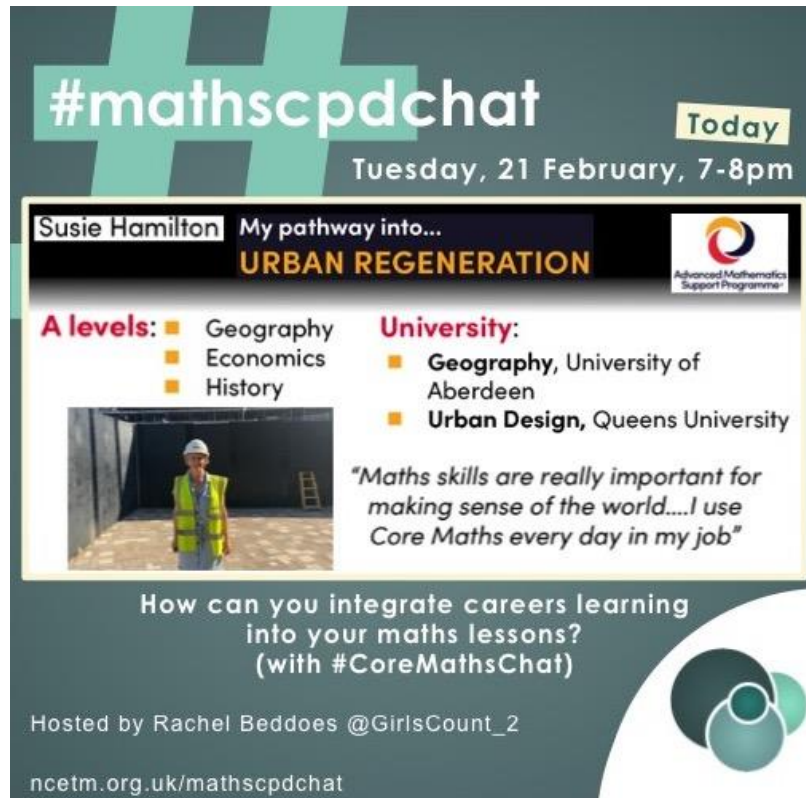


#mathscpdchat (On this occasion with #CoreMathsChat) 21 February 2023

How can you integrate careers learning into your maths lessons?

Hosted by [Rachel Beddoes](#)

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



#mathscpdchat Today
Tuesday, 21 February, 7-8pm

Susie Hamilton My pathway into...
URBAN REGENERATION

A levels: ■ Geography
■ Economics
■ History

University:
■ Geography, University of Aberdeen
■ Urban Design, Queens University

"Maths skills are really important for making sense of the world....I use Core Maths every day in my job"

How can you integrate careers learning into your maths lessons? (with #CoreMathsChat)

Hosted by Rachel Beddoes @GirlsCount_2
ncetm.org.uk/mathscpdchat

The following questions from the host were addressed:

1. Maths, careers learning and **You**: how confident are you about linking to careers in your maths lessons? How often do you do it? Do you know much about a wide variety of careers – or not?
2. Maths, careers learning and **Context**: when have you linked a maths topic or skill to careers in your lesson?
3. Maths, careers learning and **Students**: how do your students view careers? If you asked them to list careers that use maths, what would they say?
4. Maths, careers learning and **Resources**: what 'fave' sources/resources can you share that might help a maths teacher embed careers in their lessons?
5. Maths, careers learning and **Hope**: by linking careers learning and maths in your future lessons, what do you hope for?

A full illustrated summary of the discussions generated by these questions follows after a list of the links shared during this #mathsCPDchat:

[Which Career? Meet people working in different roles](#) which are enrichment events from the government-funded Advanced Maths Support Programme (AMSP) that are designed to inform secondary students about how maths is used in different careers and the importance of continuing to study maths after GCSE. It was shared by [Rachel Beddoes](#)

[Linking curriculum learning to careers](#) which are resources and materials, developed by the AMSP, and partners they have worked with, and designed to support teachers and schools in linking curriculum learning to careers. The resources include many of those to which we have provided the links separately below. It was shared by [Rachel Beddoes](#)

[Where maths meets... the world of work!](#) which is a set of high-quality videos that the AMSP are developing to showcase the maths in different careers. Each video is around five minutes long and is linked to one or more activities so students can get a real taste of what each career may entail. They are suitable for all students aged 11+. It was shared by [Rachel Beddoes](#), [Mrs D](#) and [Tom Rainbow](#)

[An interview with an Actuary about how maths helps them in their career](#) which is a video in the AMSP's [Where maths meets... the world of work!](#) series. It was shared by [Rachel Beddoes](#)

[An interview with a filmmaker about how maths helps them in their career](#) which is also a video in the AMSP's [Where maths meets... the world of work!](#) series. It was shared by [Rachel Beddoes](#)

[Meet the AMSP's Core Maths Advocates](#) which is a team that the AMSP has of teachers who teach Core Maths in schools and colleges across England. They offer 'on the ground' insight through sharing their experiences of what it means to be a Core Maths teacher right now. It was shared by [Rachel Beddoes](#)

[DigData](#) which is the Data Inspiration Group which is building a community to inspire young people to consider a career in data. Their team of 'data champions' connects students, their parents/guardians and educators with leading data industry companies and professionals across the UK It was shared by [Rachel Beddoes](#)

[Postcard from PwC: Maths](#) which is a large collection of 'careers in the Curriculum (Maths)' Case Studies. Each case study shows how the person who was interviewed responded when asked about such things as: advice they would give their 14-year-old self, how they use maths in their work now, and a highlight in their job so far. It was shared by [Rachel Beddoes](#)

[Maths4Girls](#) which is a free-to-schools initiative available throughout the UK provided by the ed-tech charity Founders4Schools. It is designed to assist educators in increasing the proportion of girls pursuing maths beyond GCSE. They do that by connecting girls aged 11 or older with female professionals who use maths in their careers. It was shared by [Rachel Beddoes](#)

[Future Talent Programme](#) which is a British Beauty Council initiative dedicated to ensuring that clear and diverse beauty career pathways are promoted to young people. With *STEM Learning* and *Careers and Enterprise* they are collaborating to develop a beauty-related careers resource for secondary schools. The site includes several Future Talent videos, and notes about how to become a British Beauty Council Ambassador. It was shared by [Rachel Beddoes](#)

[#mathsCPDchat summary 18 October2022](#) which is the summary of another joint #mathsCPDchat / #CoreMathsChat on 18 October 2022. During that chat careers in Climate-Change related careers were discussed. It was shared by [Rachel Beddoes](#)

[The MEI Contextualisation Toolkit](#) which is a collection of resources from the MEI that is designed for teaching practitioners involved in planning and delivering post-16 GCSE Mathematics. It supports greater use of contexts in teaching/learning mathematics. It suggests how teachers can develop and use their own contextualised resources and share them with others, and how to adapt and use resources that others have developed. It was shared by [Cat van Saarloos](#)

[The Amazingly Enormous STEM Careers Poster](#) which is a VERY big colourful and attractive poster. It indicates, via a large coloured annotated network diagram, the kinds of career that a science, technology, engineering or maths (STEM) degree could lead to. It was shared by [Matt Hawes](#)

[Maths Careers](#) which is a website managed and maintained by the [Institute of Mathematics and its Applications \(IMA\)](#). It contains interesting illustrated articles about how maths features in important ways in people's careers and lives, and in issues/events throughout the whole world. It was shared by [James Maloney](#), [Mrs D](#) and [Christine Watson](#)

[What is the point of studying maths at GCSE?](#) which is an illustrated article on the [Maths Careers](#) website. It was shared by [Mary Pardoe](#)

[Pythagoras Saves the Whales](#) which is another illustrated article on the [Maths Careers](#) website. It was shared by [Mary Pardoe](#)

[10 Jobs That Use Pi](#) which is another illustrated article on the [Maths Careers](#) website. It was shared by [Mary Pardoe](#)

[Uses of Percentages in the Real World](#) which is another illustrated article on the [Maths Careers](#) website. It was shared by [Mary Pardoe](#)

[Uses of Fractions in the Real World](#) which is another illustrated article on the [Maths Careers](#) website. It was shared by [Mary Pardoe](#)

[Global Action Research Collaborative on Girls' Education \(GARC\)](#) which is an action research programme that engages girls' school educators from around the world in informed, collaborative and disciplined, action research, thus building a library of research on girls' education. It includes a video *Why Action Research is Important in Girls' Schools*. It was shared by [Christine Watson](#)

[Teaching Mathematics for Social Justice](#) which is a full colour book and download by Pete Wright from the ATM. It is aimed at teachers of mathematics who are interested in addressing issues of social justice in their classrooms. It was shared by [Christine Watson](#)

[Drug Calculations for Nurses](#) which is a book by Robert Lapham and Heather Agar designed to help nurses perform drug calculations with confidence and competence. It progresses from the basic mathematical skills required for calculations, including tips on using calculators and estimating answers, to giving some understanding of basic pharmacokinetics and therapeutics. It was shared by [Dawn Denyer](#)

[Plus Magazine](#) which is a free website produced in the style of a popular science magazine, inviting young adults, students, teachers, and all life-long learners, into the world of mathematics. It includes some interviews in which people describe how they use maths in their careers, and the life-paths that they have followed in education and work. It was shared by [Mary Pardoe](#)

[Career interview: Avalanche researcher](#) which is an article by Danielle Stretch in the [Plus Magazine](#) in which Jim McElwaine 'talks' about how mathematics features/has-featured in his life and work/career. It was shared by [Mary Pardoe](#)

[News from the world of maths: The Plus Careers Podcast: Actor and mathematician](#) which is a podcast episode in the [Plus Magazine](#) in which Victoria Gould talks about how she has managed to combine a career as a research mathematician and teacher with a successful acting career on television and in theatre. It was shared by [Mary Pardoe](#)

On the day before the chat the host had tweeted this poll ...



Rachel.Beddoes @GirlsCount_2 · Feb 20

...

How is careers learning delivered in your school?

#teachers #mathscpdchat #CoreMathsChat #career @NCETM

@MEIMaths @Advanced_Maths #NCW2023

Please retweet/share. THANK YOU 🙌



91 votes · Final results

... to which there had been the following replies ...



Perseus XRI+MM+ @futharkvillage · Feb 20

...

Replying to @GirlsCount_2 @mathscpdchat and 3 others

I am not sure what you mean by "careers learning."

Learning about careers that exist? We have career day once a year.

Learning how the things we teach apply to particular careers? Subject classes.

Learning how to do particular careers? We don't do that.



Rachel.Beddoes @GirlsCount_2 · Feb 20

...

Replying to @futharkvillage @mathscpdchat and 3 others

Good questions and great replies - thank you! (The first 2). Within your subject classes is that an ad-hoc experience when the opportunity arises or more regular/prescribed by the school e.g. termly, weekly etc..



Perseus XRI+MM+ @futharkvillage · Feb 20

...

Replying to @GirlsCount_2 @mathscpdchat and 3 others

It's ad hoc. I am given a lot of freedom in my classroom, as long as I cover what's in the Common Core and students continue to do well in their next math class.

When, during the chat, the host retweeted her poll ...



Rachel.Beddoes @GirlsCount_2 · Feb 21

Just bringing this back to our attention. ANY comments?

[#MathsCPDChat](#) [#CoreMathsChat](#)



Rachel.Beddoes @GirlsCount_2 · Feb 20

How is careers learning delivered in your school?

[#teachers](#) [#mathscpdchat](#) [#CoreMathsChat](#) [#career](#) @NCETM

@MEIMaths @Advanced_Maths #NCW2023

Please retweet/share. THANK YOU 🌸

[Show this poll](#)

... there was this further response:



James Maloney @JamesWMaloney · Feb 21

Replying to @GirlsCount_2

Ours is delivered in PSHE type sessions. We often have speakers in. One thing I think would help is making vocational staff more comfortable with the maths in their subject. [#CoreMathsChat](#) [#MathsCPDChat](#)

The host, Rachel, had also posted this poll during the day before the chat ...



Rachel.Beddoes @GirlsCount_2 · Feb 21

According to research published by Nottingham University in 2017, other than maths which A level has a known wage premium by age 34. Varies between 2% and 21% depending on other factors. [#mathscpdchat](#) [#CoreMathsChat](#) JOIN US TONIGHT at 7pm

Chinese / Mandarin

11.5%

Computing / Computer Sci

44.2%

Economics

11.5%

Physics

32.7%

52 votes · Final results

... but it had prompted no replies.

The chat began with Rachel's 'Welcome' tweet ...



Rachel.Beddoes @GirlsCount_2 · 14h

Good evening all and thank you for having me. It is National Careers Week 6-11 Mar #NCW2023, so tonight we are discussing 'Maths and Career learning'. Please use both hashtags #MathsCPDChat #CoreMathsChat – so we can all keep in touch 😊



...and this invitation ...



Rachel.Beddoes @GirlsCount_2 · 14h

Replying to @GirlsCount_2

Thanks for coming. Who is with us? Please intro yourself and maybe say what you wanted to be when you grew up?

I am Rachel, I work on the AMSP and I wanted to be either @kylieiminogue or @carolvorders 🎸🥰 #mathscpdchat #CoreMathsChat

... which, although not all contributors to the whole chat responded to it, generated some replies and conversations that, even if some are light-hearted, are a reminder that students often change their 'career ideas'. This reply developed the host's own early 'career-ideas' ...



Cat van Saarloos @CoreMathsCat · 14h

Replying to @GirlsCount_2 @kylieiminogue and @carolvorders

Hello! Cat here 😊

Having heard you sing and do some number stuff, I think you have nailed that!




Rachel.Beddoes @GirlsCount_2 · 14h

Replying to @CoreMathsCat @kylieiminogue and @carolvorders

Too kind!

 **James Maloney** @JamesWMaloney · 14h ...
Replying to @CoreMathsCat @GirlsCount_2 and 2 others
The Singing Mathematician! Sounds like a Dennis Potter sequel.
[#CoreMathsChat](#) [#MathsCPDChat](#)

 **James Maloney** @JamesWMaloney · 14h ...
Replying to @GirlsCount_2
I am Spartacus! No, I mean James. I teach Core Maths and when I was young I wanted to be a cricketer, then in a band and now when I grow up I want to be a screen writer. [#CoreMathsChat](#) [#MathsCPDChat](#)

... and this was a reminder that teaching is a possible career for some students:

 **Tom Rainbow** @CoreMathsTom · 14h ...
Replying to @GirlsCount_2 @kylieminogue and @carolvorders
Hi Rachel, thanks for doing this, really looking forward it.

I'm Tom, I work for AMSP and really had no idea what I wanted to be when I grew up, hence I became a teacher :)! [#coremathschat](#) [#mathscpdchat](#)

 **Rachel.Beddoes** @GirlsCount_2 · 14h ...
Replying to @CoreMathsTom @kylieminogue and @carolvorders
🤔👉🤔 A great one though Tom [#mathscpdchat](#) [#CoreMathsChat](#)

 **Tom Rainbow** @CoreMathsTom · 14h ...
Replying to @GirlsCount_2 @kylieminogue and @carolvorders
Hmmm...you were never in my lessons!!! [#coremathschat](#) [#mathscpdchat](#)

 **Rachel.Beddoes** @GirlsCount_2 · 14h ...
Replying to @CoreMathsTom @kylieminogue and @carolvorders
Wish I had been! Been in your PD and enjoyed that! [#mathscpdchat](#)
[#CoreMathsChat](#)

 **Tom Rainbow** @CoreMathsTom · 14h ...
Replying to @GirlsCount_2 @kylieminogue and @carolvorders
Back at you Rachel! [#coremathschat](#) [#mathscpdchat](#)

Some contributors indicated that they are work colleagues ...

 **MrsD** @MrsDMaths · 14h ...
Replying to @GirlsCount_2 @kylieminogue and @carolvorders
I'm Sarah and I also work on the AMSP. I wanted to be a magician & in particular to be the first woman in the magic circle [#CoreMathsChat](#)
[#mathscpdchat](#)

 **Rachel.Beddoes** @GirlsCount_2 · 14h ...
Replying to @MrsDMaths @kylieminogue and @carolvorders
Close! You are a mathemagician.... if that counts [#mathscpdchat](#)
[#CoreMathsChat](#)

 **Tom Rainbow** @CoreMathsTom · 14h ...
Replying to @MrsDMaths @GirlsCount_2 and 2 others

Is the MEI inner circle a suitable second best? #coremathschat #mathscpdchat

 **MrsD** @MrsDMaths · 14h ...
Replying to @CoreMathsTom @GirlsCount_2 and 2 others

It is pretty good so far 😊 #CoreMathsChat #mathscpdchat

... and this teacher's 'early career-idea' prompted Rachel to share the link to a relevant resource (on a website page which is one among the many useful sources of support discussed later during the chat):

 **MrHawesMaths** @HawesMaths · 14h ...
Replying to @GirlsCount_2 @kylieminogue and @carolvorders

Matt here. Wanted to be a physio when I grew up. Lived the dream for a bit and now a career in teaching 🤪 #mathscpdchat

 **Rachel.Beddoes** @GirlsCount_2 · 14h ...
Replying to @HawesMaths @kylieminogue and @carolvorders

Thanks for sharing Matt! Do you talk about the maths of being a physio or from previous jobs with your students at all? #mathscpdchat #CoreMathsChat

 **Rachel.Beddoes** @GirlsCount_2 · 14h ...
Replying to @HawesMaths @kylieminogue and @carolvorders

Love this!! We have something on Orthotics you might like amsp.org.uk/where-maths-me... #mathscpdchat #CoreMathsChat



The following admission of an early 'career-idea' prompted some discussion about teaching a subject that is not maths:



Christine Watson @clw9999 · 15h

...

I'm Christine, I wanted to be an English teacher when I grew up. Then I saw my English teacher marking essays and did a sharp left
[#NCW2023](#) [#MathsCPDChat](#) [#CoreMathsChat](#)



Christine Watson @clw9999 · 15h

...

Replying to @clw9999

I also now work for AMSP and in ITT and a few other acronyms
[#NCW2023](#) [#MathsCPDChat](#) [#CoreMathsChat](#)



Tom Rainbow @CoreMathsTom · 16h

...

Replying to @clw9999

...and became a full time Scritti Politti fan! [#coremathschat](#)
[#mathscpdchat](#)



Rachel Beddoes @GirlsCount_2 · 15h

...

Replying to @clw9999

Welcome Christine - thanks for being here. [#mathscpdchat](#)
[#CoreMathsChat](#)



Tom Rainbow @CoreMathsTom · 15h

...

Replying to @clw9999

Being married to an English teacher I can say with certainty that you made the right decision...the marking, yuck!! [#coremathschat](#) [#mathscpdchat](#)



Tom Rainbow @CoreMathsTom · 15h

...

Replying to @clw9999

It was just relentless and there seemed to be no way of shortcutting it. These days all their essays will be done by AI so it should make it easier! (too cynical?) [#coremathschat](#) [#mathscpdchat](#)



Christine Watson @clw9999 · 15h

...

Replying to @CoreMathsTom

AI makes it harder, trying to spot it already in assignments. Takes longer as it's an extra layer : check spag, check integrity, check references, check AI. Don't forget to read it.

(yep, now mark essays, they got me anyway)

[#NCW2023](#) [#MathsCPDChat](#) [#CoreMathsChat](#)



Tom Rainbow @CoreMathsTom · 15h

...

Replying to @clw9999

Oh my, already!- How frequently is it cropping up? [#coremathschat](#)
[#mathscpdchat](#)



Christine Watson @clw9999 · 15h



Replying to @CoreMathsTom

Not much for a full assignment. Looks more like parts, especially near the end when the deadline must be approaching. Change in style back to normal for the last 2 paragraphs when it is back to target setting is more obvious.

#MathsCPDChat #CoreMathsChat

The distribution of replies-to/responses-to/tweets-generated-by each of the host's five main questions was unbalanced. This table shows the number (to the nearest 5) of tweets generated by each main question:

Question:	1	2	3	4	5
Number of tweets:	80	10	10	15	5

This pattern is common in our Twitter discussions, possibly because some conversations that are initiated by replies to the first question continue to develop throughout the hour, leaving less time for people to respond to (replies to) later questions.

Rachel's first main question ...



Rachel.Beddoes @GirlsCount_2 · 16h



Here we go....

Q1 - Maths, careers learning and You

How confident are you about linking to careers in your maths lessons?

How often you do it? Do you know much about a wide variety of careers – or not? #mathscpdchat #CoreMathsChat



... prompted the following six conversations and four 'single' replies.

During the chat, conversations developed simultaneously, with tweets that were parts of different conversations ‘interleaved’.

The first conversation shown below focussed on comparing the challenge in GCSE lessons with the relative ease in Core Maths lessons with which the maths that students are doing/learning can be related to what people need to do in careers:



Dave Gale @reflectivemaths · 18h

...

Replying to @GirlsCount_2

Medium. I’m sure there are lots of maths careers out there that I don’t know about. Core Maths is far easier to make links than GCSE though!
[#mathscpdchat](#)



Rachel.Beddoes @GirlsCount_2 · 18h

...

Replying to @reflectivemaths

Hi Dave. You have pre-empted one of my questions ⭐ I wondered whether people thought that CM helped with making careers links? Got any good examples? [#mathscpdchat](#) [#CoreMathsChat](#)



Dave Gale @reflectivemaths · 18h

...

Replying to @GirlsCount_2

Hello. I suppose I like the critical analysis parts and links to journalism. The financial stuff with anything accountancy based. Less clear cut but anything statistics with research based jobs.



Tom Rainbow @CoreMathsTom · 18h

...

Replying to @reflectivemaths and @GirlsCount_2

Core Maths made the difference for me. Starting with context often meant that the career was the starting point and that then led into the maths.

So much more natural than ‘oh, and you use this bit of algebra if you are an...engineer?’ [#coremathschat](#) [#mathscpdchat](#)



Rachel.Beddoes @GirlsCount_2 · 18h

...

Replying to @CoreMathsTom and @reflectivemaths

Another ⭐ awarded! Pre-empted the question “Have you used a career as a ‘context first way in’ or linked to after you have taught ‘the maths”
[#mathscpdchat](#) [#CoreMathsChat](#)



Dave Gale @reflectivemaths · 18h

...

Replying to @GirlsCount_2 and @CoreMathsTom

Not as a starting point.
I generally go the other way round!



Tom Rainbow @CoreMathsTom · 18h

...

Replying to @reflectivemaths and @GirlsCount_2

I always felt when I was teaching #coremaths that if I couldn't build a narrative, usually to do with careers, then I wasn't really doing justice to the resource. Hence playing a strategy game in class was nested in a lesson about Game Theory #coremathschat #mathscpdchat

Dave's tweet that started this conversation is shown again here to show that it also prompted the conversation to go in a slightly different direction:



Dave Gale @reflectivemaths · 18h

...

Replying to @GirlsCount_2

Medium. I'm sure there are lots of maths careers out there that I don't know about. Core Maths is far easier to make links than GCSE though!



MrsD @MrsDMaths · 20h

...

Replying to @reflectivemaths and @GirlsCount_2

I agree. It feels so much more immediate seeing the links #CoreMathsChat #mathscpdchat



James Maloney @JamesWMaloney · 20h

...

Replying to @MrsDMaths @reflectivemaths and @GirlsCount_2

Yes, at GCSE it was more like, 'this is going to teach you skills & procedural thinking & problem-solving that is useful in lots of jobs..... I'm not sure which bit you're going to use...' #CoreMathsChat #MathsCPDChat



Mary Pardoe @PardoeMary · 20h

...

Replying to @JamesWMaloney @MrsDMaths and 2 others

This appeared too late I guess?
mathscareers.org.uk/what-is-the-po...
#mathscpdchat #CoreMathsChat



mathscareers.org.uk

What is the point of studying maths at GCSE?



James Maloney @JamesWMaloney · 19h

...

Replying to @PardoeMary @MrsDMaths and 2 others

Just the 15 years too late! 😊 I'd love to have known better what maths was going to be used in a medical degree rather than just knowing that students should probably study Maths, Chemistry, Physics or Biology.

Rachel.Beddoes @GirlsCount_2 · 19h ...
 Replying to @JamesWMaloney @PardoeMary and 2 others
 More to follow on this from @Advanced_Maths towards the end of Spring
[#mathscpdchat](#) [#CoreMathsChat](#)

MrsD @MrsDMaths · 19h ...
 Replying to @GirlsCount_2 @JamesWMaloney and 3 others
 I was about to say that! [#CoreMathsChat](#) [#mathscpdchat](#)

This next conversation, also generated by the host's first main question ...

1. Maths, careers learning and You: how confident are you about linking to careers in your maths lessons? How often do you do it? Do you know much about a wide variety of careers – or not?

... eventually touched on the desirability of students' appreciating the need to address conservation issues:

Cat van Saarloos @CoreMathsCat · 16h ...
 Replying to @GirlsCount_2
 Honestly, I don't think I did it that well. It was pretty ad-hoc and I didn't signpost enough that the skills students were developing would be useful for future careers [#mathscpdchat](#)

Rachel.Beddoes @GirlsCount_2 · 16h ...
 Replying to @CoreMathsCat
 You are not alone!! can you explain a bit more about the 'skills' you are talking about and how you could have signposted them better?
[#mathscpdchat](#) [#CoreMathsChat](#)

Cat van Saarloos @CoreMathsCat · 16h ...
 Replying to @GirlsCount_2
 I will do but it has to be later but I am now off to Am-dram (future career perhaps). Sorry!

Mary Pardoe @PardoeMary · 16h ...
 Replying to @CoreMathsCat and @GirlsCount_2
 You didn't show them things like this then Cat? 😊
mathscareers.org.uk/10-jobs-that-u...
[#mathscpdchat](#) [#CoreMathsChat](#)



mathscareers.org.uk
10 Jobs That Use Pi



Cat van Saarloos @CoreMathsCat · 16h

Replying to @CoreMathsCat and @GirlsCount_2

I think the explosion of data has made it easier to see how valuable maths skills are in any industry #mathscpdchat

This discussion continued when the host quote-retweeted, with this further question, Cat's tweet that had started the conversation:



Rachel Beddoes @GirlsCount_2 · Feb 21

Do you ever point out "in today's lesson we worked on our teamworking/problem solving/critical thinking" etc.. skills? They will hear those words in careers sessions and from employers! #MathsCPDChat #CoreMathsChat



MrsD @MrsDMaths · Feb 21

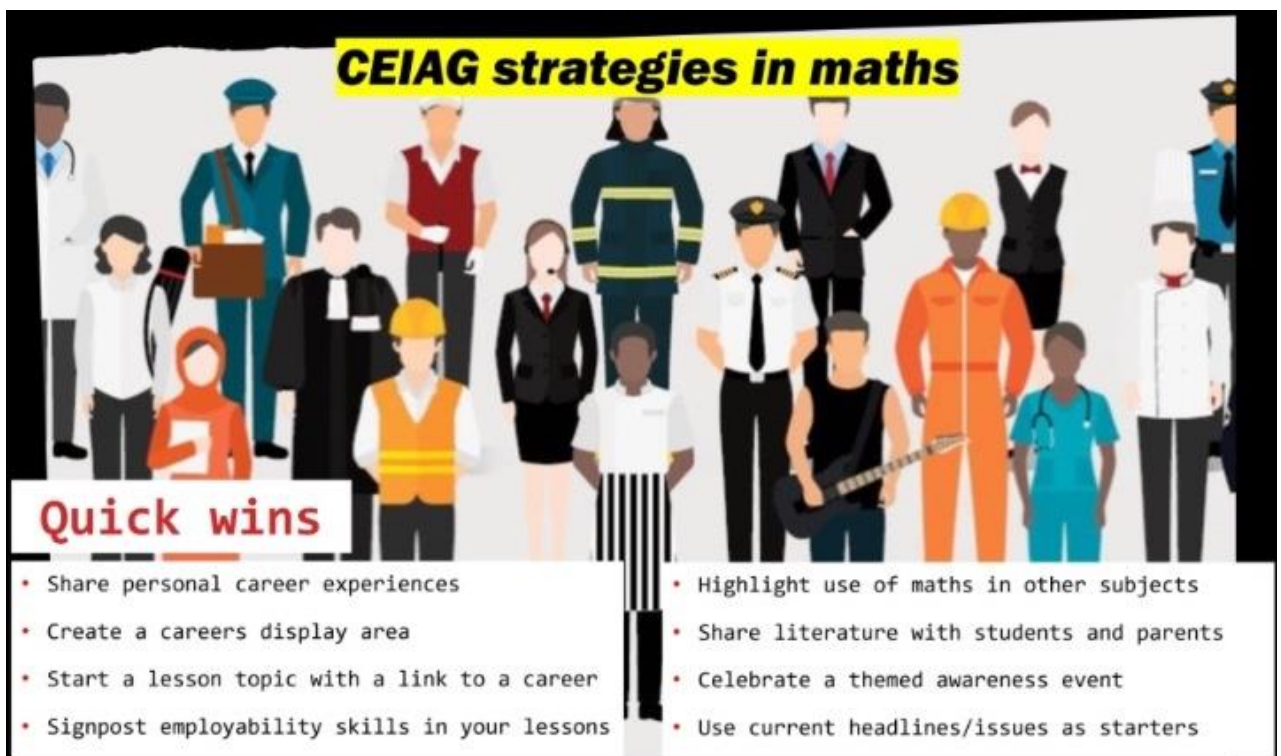
I probably didn't enough but is really worth doing! #CoreMathsChat #mathscpdchat



Rachel Beddoes @GirlsCount_2 · Feb 21

Replying to @MrsDMaths

One of the Quick Wins.... Anyone tried any others? #mathscpdchat #CoreMathsChat









CEIAG strategies in maths

Quick wins

- Share personal career experiences
- Create a careers display area
- Start a lesson topic with a link to a career
- Signpost employability skills in your lessons

- Highlight use of maths in other subjects
- Share literature with students and parents
- Celebrate a themed awareness event
- Use current headlines/issues as starters

-  **James Maloney** @JamesWMaloney · Feb 21 ...
Replying to @GirlsCount_2 and @MrsDMaths
I've produced starters for Animal Management students looking at deforestation in Borneo, tigers in Bengal, pets in lockdown. They can see how maths is used in careers they may want to go into - dog rescue, conservation, zoology. #CoreMathsChat #MathsCPDChat
-  **Tom Rainbow** @CoreMathsTom · Feb 21 ...
Replying to @JamesWMaloney @GirlsCount_2 and @MrsDMaths
Having been on a family holiday to Borneo in 2017, the deforestation there is so upsetting. Really should elicit a strong reaction in your students as the loss of habitat is so alarming. #coremathschat #coremathscpd
-  **James Maloney** @JamesWMaloney · Feb 21 ...
Replying to @JamesWMaloney @GirlsCount_2 and @MrsDMaths
It did. We talked about the need to use maths to help spread the message of what is happening. So organisations could properly convey the extent of the problem. #CoreMathsChat #MathsCPDChat
-  **MrsD** @MrsDMaths · Feb 21 ...
Replying to @JamesWMaloney and @GirlsCount_2
I do think that maths for social justice is really powerful for young people and they often don't realise how key it is to making the world a better place. #mathscpdchat #coremathschat
-  **Christine Watson** @clw9999 · Feb 21 ...
Replying to @MrsDMaths @JamesWMaloney and @GirlsCount_2
Is there an ATM book?
#coremathschat #coremathscpd
-  **Christine Watson** @clw9999 · Feb 21 ...
Replying to @clw9999 @MrsDMaths and 2 others
There is... atm.org.uk/shop/Teaching-...

Of the six conversations that were prompted by the host's first main question ...

How confident are you about linking to careers in your maths lessons?
How often you do it? Do you know much about a wide variety of careers – or not? #mathscpdchat #CoreMathsChat

... the following one (the third shown here) included the advice, offered to all maths teachers, that they draw on the knowledge about maths-used-in-careers of those maths teachers who are working in FE:



James Maloney @JamesWMaloney · 16h

...

Replying to @GirlsCount_2

In a general sense, fairly confident. I think that's because I work in vocational FE. When contextualising I can be really specific about a lot of the maths that they will use in their career. At school, much less so!

[#CoreMathsChat](#) [#MathsCPDChat](#)



Rachel Beddoes @GirlsCount_2 · 16h

...

Replying to @JamesWMaloney

DO you pass on your wisdom re maths and vocations? (For free?) Can you give us a fave example? [#mathscpdchat](#) [#CoreMathsChat](#)



Cat van Saarloos @CoreMathsCat · 16h

...

Replying to @JamesWMaloney and @GirlsCount_2

The [@MEIMaths](#) contextualisation toolkit might be useful: mei.org.uk/resource/9ae57...



mei.org.uk
Resource - MEI



Cat van Saarloos @CoreMathsCat · 16h

...

Replying to @CoreMathsCat @JamesWMaloney and 2 others

Not for you James - I mean other people who don't work in FE :)



James Maloney @JamesWMaloney · 16h

...

Replying to @GirlsCount_2

A lot of my students will be self-employed or contractors, so knowing financial maths is crucial. Costing & budgeting. Critical Path Analysis for project management. One of my students' parents shared their Gantt chart with us for a building project. [#CoreMathsChat](#) [#MathsCPDChat](#)



Rachel Beddoes @GirlsCount_2 · 16h

...

Replying to @JamesWMaloney

Got a great video and lesson resource on being self-employed amsp.org.uk/resource/90f7d... Sabina the film maker



amsp.org.uk
Resource - AMSP



Tom Rainbow @CoreMathsTom · 16h

...

Replying to @JamesWMaloney and @GirlsCount_2

I think we should try to draw on the expert careers knowledge of our FE colleagues...maybe in AMSP network meetings? #coremathschat #mathscpdchat



Rachel.Beddoes @GirlsCount_2 · 20h

...

Totally agree #mathscpdchat #CoreMathsChat

Another of the conversations prompted by Rachel's Q1 ...

How confident are you about linking to careers in your maths lessons?
How often you do it? Do you know much about a wide variety of careers –
or not? #mathscpdchat #CoreMathsChat

... was about a big poster:



MrHawesMaths @HawesMaths · 16h

...

Replying to @GirlsCount_2

I also have this on my classroom wall #mathscpdchat #coremathschat

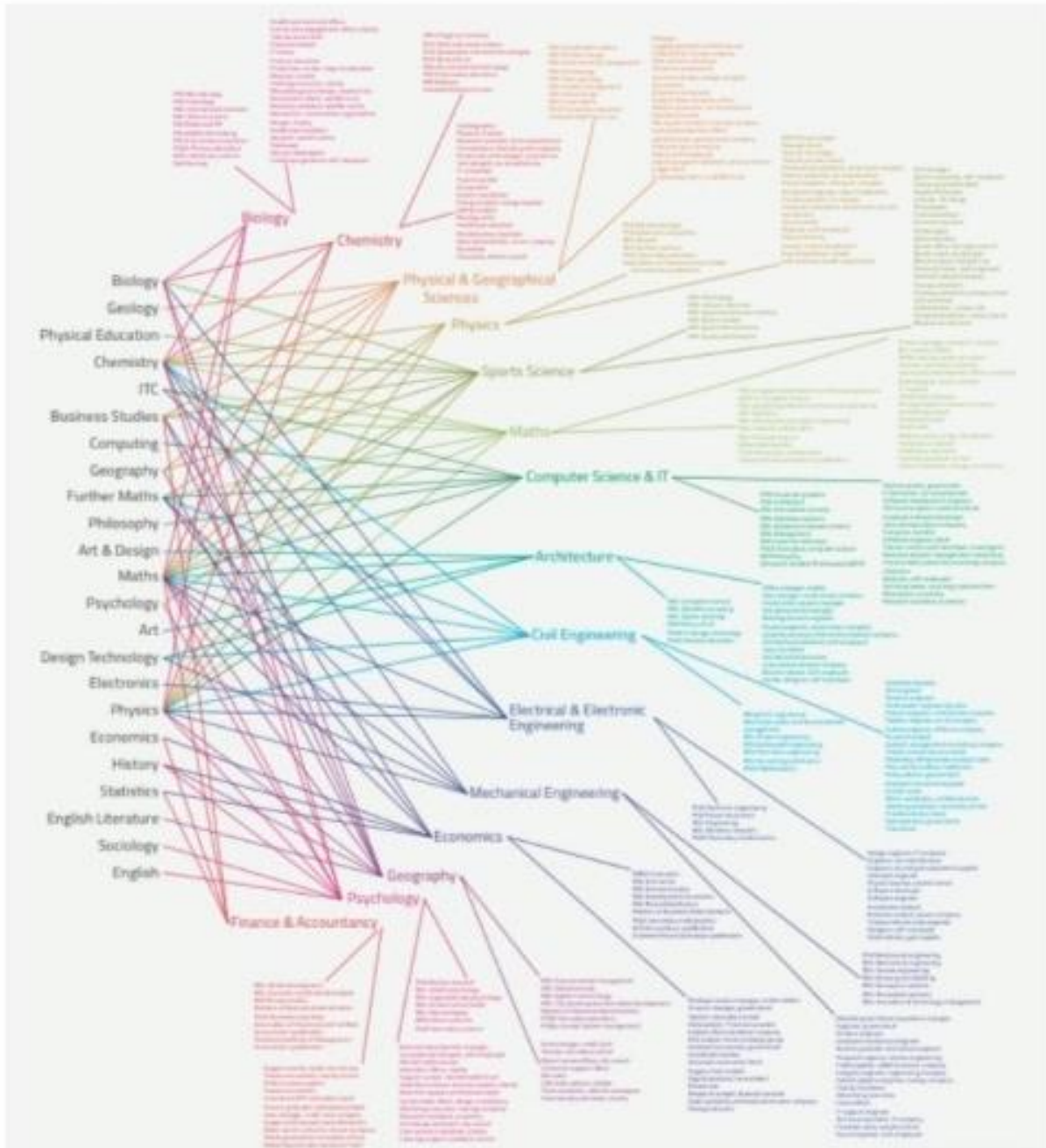
The Amazingly Enormous STEM Careers Poster

What Can I Do?

What kind of career could a science, technology, engineering or maths (STEM) degree lead to? You might be surprised to know that a degree in biology might help you become a zookeeper, or that mechanical engineering could land you a job in the music industry.

Take a look, on the right, at the jobs and qualifications that 2014's university graduates are doing. Follow the lines to see their degree, and the A-Levels you might need to do to follow in their footsteps. Then talk to your teachers about your GCSE options.

STEM degrees open the door to all sorts of interesting and often lucrative careers, in a wide variety of industries, some quite unexpected! Whether you want to be a manager or a musician, site engineer or football coach, researcher or radio producer, a STEM degree can get you there!



The three paragraphs at the top of the poster, from left to right are:

What kind of career could a science, technology, engineering or maths (STEM) degree lead to? You might be surprised to know that a degree in biology might help you become a zookeeper, or that mechanical engineering could land you a job in the music industry.

Take a look, on the right, at the jobs and qualifications that 2014's university graduates are doing. Follow the lines to see their degree, and the A-Levels you might need to do to follow in their footsteps. Then talk to your teachers about your GCSE options.

STEM degrees open the door to all sorts of interesting and often lucrative careers, in a wide variety of industries, some quite unexpected! Whether you want to be a manager or a musician, site engineer or football coach, researcher or radio producer, a STEM degree can get you there!



Rachel Beddoes @GirlsCount_2 · 16h

...

Replying to @HawesMaths

Have seen that before - a work of art and of mathematics!!! can you share the link? #mathscpdchat #CoreMathsChat Thanks



MrHawesMaths @HawesMaths · 16h

...

Replying to @GirlsCount_2

findingada.com/wp-content/upl. #mathscpdchat #coremathschat



James Maloney @JamesWMaloney · 21h

...

Fantastic! #CoreMathsChat #MathsCPDChat



Tom Rainbow @CoreMathsTom · 21h

...

Replying to @JamesWMaloney

That would be really useful although I imagine some of my students would end up spending all their time gazing at the poster rather than rationalising their denominators! #coremathschat #mathscpdchat

The other two (out of six) discussions that were in response to the host's Q1 were both started-off by replies directly to Q1 from Christine Watson. There was this long conversation ...



Christine Watson @clw9999 · 18h

...

Replying to @GirlsCount_2

I think I know more useful careers info now. When I started teaching I knew so little about anything

#NCW2023 #MathsCPDChat #CoreMathsChat



Rachel.Beddoes @GirlsCount_2 · 18h

...

Replying to @clw9999

Good point Christine. DO you think that is still the case for new teachers now? #mathscpdchat #CoreMathsChat



Christine Watson @clw9999 · 18h

...

Replying to @GirlsCount_2

Probably for those like me that ping straight from school to uni to degree without mingling.

Lots of P/T jobs but no depth

#NCW2023 #MathsCPDChat #CoreMathsChat



James Maloney @JamesWMaloney · 18h

...

Replying to @GirlsCount_2 and @clw9999

At school we had the 'Shift Happens,' presentation. Told the students the job markets would be unpredictable. But we never then used that or built on it in maths. How was maths going to help them be prepared for the future. #CoreMathsChat #MathsCPDChat



Christine Watson @clw9999 · 17h

...

Replying to @JamesWMaloney and @GirlsCount_2

Saw Shift Happens a lot when at the LA.

It isn't pd unless there's a card sort and either Shift Happens or Every Child Matters 😊

#NCW2023 #MathsCPDChat #CoreMathsChat



MrsD @MrsDMaths · 17h

...

Replying to @GirlsCount_2 and @clw9999

I agree Christine. Part of that has been through the resources @Advanced_Maths has produced and part has been making a real effort to find things out. I still hope to do some shadowing of different jobs to get a feel for it though #CoreMathsChat #mathscpdchat



Rachel.Beddoes @GirlsCount_2 · 18h

...

Replying to @MrsDMaths @clw9999 and @Advanced_Maths

There is an project with @STEMLearningUK where you can do that - can't remember what it is called 😊 #mathscpdchat #CoreMathsChat



Christine Watson @clw9999 · 18h

...

Replying to @MrsDMaths @GirlsCount_2 and @Advanced_Maths

That sounds like fun!

I want to shadow (a) a professional photographer, will carry kit in return (b) a landscape gardener, will be labourer

#NCW2023 #MathsCPDChat #CoreMathsChat



Mary Pardoe @PardoeMary · 17h

...

Replying to @MrsDMaths @GirlsCount_2 and 2 others

Yes ... and Plus were doing 'maths used in careers' interviews back about 15 or so years ago ... e.g. ...plus.maths.org/content/career...

[#mathscpdchat](#) [#CoreMathsChat](#)



plus.maths.org

Career interview: Avalanche researcher

Jim McElwaine tells Plus how he combines his two loves - mathematics and mountaineering - in ...



Rachel Beddoes @GirlsCount_2 · 17h

...

Replying to @PardoeMary @MrsDMaths and 2 others

Still lots of good stuff on Plus Maths! [#mathscpdchat](#) [#CoreMathsChat](#)



Mary Pardoe @PardoeMary · 17h

...

Replying to @GirlsCount_2 @MrsDMaths and 2 others

Yes indeed ... this is a podcast interview from Plus ...

plus.maths.org/content/news-w...

[#mathscpdchat](#)

[#CoreMathsChat](#)

<https://plus.maths.org/content/news-world-maths-plus-careers-podcast-actor-and-mathematician>



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News from the world of maths: The Plus Careers Podcast: Actor and mathematician



Submitted by plusadmin on 23 December, 2008

Tuesday, December 23, 2008



Combining a love of maths with a successful acting career

Victoria Gould has always known she would be an actor, and went straight from studying arts at school to running her own theatre company. But she eventually had to come clean about her guilty secret - she loves maths - and has since managed to combine a career as a research mathematician and teacher with a successful acting career on television and in theatre. In this, the first of a two part podcast, Victoria tells *Plus* why she needs to use both sides of her brain.

This podcast accompanies the career interview from issue 49 of *Plus*.



Tom Rainbow @CoreMathsTom · 18h

...

Replying to @clw9999 @MrsDMaths and 2 others

When I was at university a friend of mine from school was studying landscape architecture...I immediately knew I was on the wrong trajectory (Civil & Structural Engineering) but that, by then, it felt like it was too late to change! #coremathschat #mathscpdchat



MrsD @MrsDMaths · 21h

...

Replying to @GirlsCount_2

Like my son! 1 year of medicine, quit, started computer science. Maths was the subject that got him into both (alongside chemistry for Medicine of course!)



Christine Watson @clw9999 · 18h

...

Replying to @CoreMathsTom @MrsDMaths and 2 others

Let's go into business!

If I'm going to have a career change I'm running out of time..

#NCW2023 #MathsCPDChat #CoreMathsChat



Tom Rainbow @CoreMathsTom · 17h

...

Replying to @clw9999 @MrsDMaths and 2 others

Likewise. Let's strike while the iron rake's hot! #coremathschat #mathscpdchat



Rachel Beddoes @GirlsCount_2 · 21h

...

Never too late to change Tom! Also if you have studied maths you can do pretty much anything. That's a message for students I reckon! Can be heard in amsp.org.uk/where-maths-me...

#mathscpdchat #CoreMathsChat



Tom Rainbow @CoreMathsTom · 21h

...

Replying to @GirlsCount_2

You're right but in 1988 I think you probably felt more 'locked in' than you do today. Or maybe that is just my (mis)perception. #coremathschat #mathscpdchat



Christine Watson @clw9999 · 21h

...

Replying to @CoreMathsTom and @GirlsCount_2

I applied for non teaching jobs (first job was 1 year temp so worried about employment). Was told I didn't have enough skills or experience with Maths/Business degree, then told ex teachers are too soft as managers! Lucky I got a teaching job

#NCW2023 #MathsCPDChat #CoreMathsChat



Rachel.Beddoes @GirlsCount_2 · 21h
Replying to @clw9999 and @CoreMathsTom



Christine Watson @clw9999 · 21h
Replying to @GirlsCount_2 and @CoreMathsTom

It's a long time ago. Now I'd point them to one of those schools with special behaviour policies...
[#NCW2023](#) [#MathsCPDChat](#) [#CoreMathsChat](#)

... and this shorter discussion, in which the career-changing focus in the previous conversation was replaced by a look at whether people are always properly aware of how much mathematics they use in the process of earning a living:



Christine Watson @clw9999 · 19h
Replying to @GirlsCount_2

Now I talk to a lot of career changers, it's interesting how many think they use no mathematical thinking or skills. Like the economist, or the geographer doing field studies...
[#NCW2023](#) [#MathsCPDChat](#) [#CoreMathsChat](#)



Rachel.Beddoes @GirlsCount_2 · 19h
Replying to @clw9999

[@STEMAmbassadors](#) often have the same issue as many of their volunteers don't readily see how much maths they use in their jobs. WHY do you think that is? [#mathscpdchat](#) [#CoreMathsChat](#)



Christine Watson @clw9999 · 18h
Replying to @GirlsCount_2 and @STEMAmbassadors

They tend to say "it isn't algebra/trig/curcle theorems"
I don't know where this narrow perspective comes from since maths is literally everywhere
I do understand not recognising ways of thinking though
[#NCW2023](#) [#MathsCPDChat](#) [#CoreMathsChat](#)



James Maloney @JamesWMaloney · 18h
Replying to @clw9999 @GirlsCount_2 and @STEMAmbassadors

They see it as using specific skills, rather than skills that are a part of maths. Notice it with apprentices, esp engineering. They can do what they need to, but can't always generalise, so have to in essence learn a new skill rather than adapt. [#CoreMathsChat](#) [#MathsCPDChat](#)



Tom Rainbow @CoreMathsTom · 18h

Replying to @clw9999 @GirlsCount_2 and @STEMAmbassadors
Pythagoras has a lot to answer for! For many that is school maths!
[#coremathschat](#) [#mathscpdchat](#)



Mary Pardoe @PardoeMary · 18h

Replying to @CoreMathsTom @clw9999 and 2 others
But Pythagoras saves the whales ... tell them that!!!
[mathscareers.org.uk/pythagoras-sav...](#)
[#mathscpdchat](#) [#CoreMathsChat](#)



[mathscareers.org.uk](#)
Pythagoras Saves the Whales
Whales Are Under Threat A major threat to whales arises from them coming too close to shipping. ...



Rachel Beddoes @GirlsCount_2 · 18h

Replying to @PardoeMary @CoreMathsTom and 2 others
This is a brilliant resource from @cjbfordogs Saw him deliver it an
@Ri_Science masterclass and used it in my lessons [#mathscpdchat](#)
[#CoreMathsChat](#)



Tom Rainbow @CoreMathsTom · 18h

Replying to @PardoeMary @clw9999 and 2 others
Don't get me wrong Mary, I love me a bit of Pythag! It just seems to be the moment from their maths learning that all adults seem to remember, maybe the name makes it sound complicated...them Greeks were boffs after all! [#coremathschat](#) [#mathscpdchat](#)



Mary Pardoe @PardoeMary · 18h

Replying to @CoreMathsTom @clw9999 and 2 others
Yes ... they probably think percentages, for example, matter more?
[mathscareers.org.uk/uses-of-percen...](#)
[#mathscpdchat](#) [#CoreMathsChat](#)



[mathscareers.org.uk](#)
Uses of Percentages in the Real World



Mary Pardoe @PardoeMary · 18h

...

Replying to @PardoeMary @CoreMathsTom and 3 others

... and fractions ...

mathscareers.org.uk/uses-of-fractions/

#mathscpdchat #CoreMathsChat



mathscareers.org.uk

Uses of Fractions in the Real World

How is GCSE maths used in everyday life? Here are 10 examples of where people use fractions in ...



Rachel Beddoes @GirlsCount_2 · Feb 21

...

Replying to @CoreMathsTom @clw9999 and @STEMAmbassadors

Pythagoras is quoted most often as the bit of maths that is most useful in the world of work (construction and DIY enthusiasts) and the least useful!

#MathsCPDChat #CoreMathsChat



Tom Rainbow @CoreMathsTom · Feb 21

...

Replying to @GirlsCount_2 @clw9999 and @STEMAmbassadors

For many it's just $a^2 + b^2 = c^2$ with no idea what a, b or c represent. Just a mantra.

As a civil engineer you'd be lost without it though (obviously).

#coremathschat #mathscpdchat

The host's first question ...

How confident are you about linking to careers in your maths lessons?

How often you do it? Do you know much about a wide variety of careers – or not? #mathscpdchat #CoreMathsChat

... also prompted the following 'single' replies:



MrHawesMaths @HawesMaths · 19h

...

Replying to @GirlsCount_2

I try to make links where possible. Helps to apply context to some maths problems when you can use actual examples. #mathscpdchat

#coremathschat



Kai Stengel @StengelKai · 17h

...

Replying to @GirlsCount_2

I have the maths wheels that Cfem and Grimsby Institute made. I think it was Emma Bell. These are great



MrsD @MrsDMaths · 19h

Replying to @GirlsCount_2

In all honesty I didn't do it well. I could think of accountancy and probably software development and that was about it. Those and the usual "% are everywhere" examples were about it. It can be hard when you have only ever been a teacher #CoreMathsChat #mathscpdchat



Karen @tallbirdtoo · 19h

Replying to @GirlsCount_2

FE lecturer here. Contextualising maths is important in engagement. Some obvious links for caterers, business, carpentry, plumbing, hair and many more... I have struggled with the visual art crew though!

The host's second main question ...



Rachel.Beddoes @GirlsCount_2 · 20h

2. Maths, careers learning and Context:

When have you linked a maths topic or skill to careers in your lesson? 🎵

"Tell me more, tell me more" 🎵 #mathscpdchat #CoreMathsChat



... one conversation and two 'single' replies. Contributors to the conversation mentioned maths used in nursing and by plumbers:



MrsD @MrsDMaths · 20h
Replying to @GirlsCount_2

I had a student aiming for a C but was on a D who was typically "when will I ever need this, I want to be a nurse?" So I got some real drug calculations from a nurse friend for the next lesson. The context and the effort made a real difference #CoreMathsChat #mathscpdchat



James Maloney @JamesWMaloney · 20h
Replying to @MrsDMaths and @GirlsCount_2

Yep, substitution and ratios for Vet Nurses. #CoreMathsChat #MathsCPDChat



Christine Watson @clw9999 · 20h
Replying to @MrsDMaths and @GirlsCount_2

I have a book of maths for nurses, the ratios and unit conversions are very complicated #NCW2023 #MathsCPDChat #CoreMathsChat



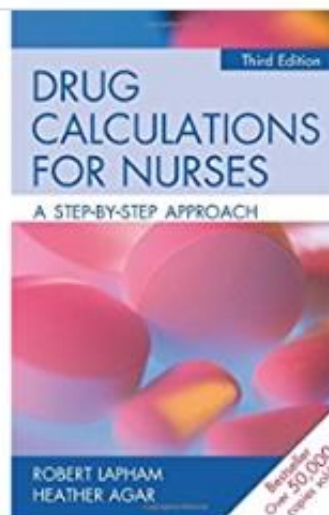
Dawn MA NPQSL ❤️ ✖️ ÷ + - ❤️ 🟡 @mrsdenyer · 20h
Replying to @MrsDMaths and @GirlsCount_2

I have a fab book of medical ratio calculations that they use to teach student medics - I often use them!



Dawn MA NPQSL ❤️ ✖️ ÷ + - ❤️ 🟡 @mrsdenyer · 20h
Replying to @mrsdenyer @MrsDMaths and @GirlsCount_2

Drug Calculations for Nurses: A...



★★★★★ 118

amazon.co.uk

Drug Calculations for Nurses: A Step-by-Step Approach 3rd Edition

Drug Calculations for Nurses: A Step-by-Step Approach 3rd Edition



Rachel.Beddoes @GirlsCount_2 · 21h ...

Anyone got a fave example, one that always goes well? [#MathsCPDChat](#)
[#CoreMathsChat](#)



Christine Watson @clw9999 · 21h ...

Replying to [@GirlsCount_2](#)

Plumbers. New pipes to old. Cost of pipe so route optimisation. Flow rates including extractors. And how to estimate cost of a job with that special expression, shake of the head and oooh (my Y9 practised this for an exit ticket)

[#NCW2023](#) [#MathsCPDChat](#) [#CoreMathsChat](#)



Rachel.Beddoes @GirlsCount_2 · 21h ...

Replying to [@clw9999](#)

Excellent examples [#mathscpdchat](#) [#CoreMathsChat](#) We should be getting a good list together this evening!

The 'single' replies were:



James Maloney @JamesWMaloney · 20h ...

Replying to [@GirlsCount_2](#)

Mentioned some earlier, but also agriculture has loads: yield, crop rotation, spreadsheets, finance. [#CoreMathsChat](#) [#MathsCPDChat](#)



MrHawesMaths @HawesMaths · 20h ...

Replying to [@GirlsCount_2](#)

Whenever I do primes I discuss cryptography and security. This invariably leads to discussions about cyber security and working for MI5 or 6 and then leads to analysis of data etc. quite a rabbit hole but fun to do.

[#mathscpdchat](#) [#coremathschat](#)

The third main question ...



Rachel.Beddoes @GirlsCount_2 · Feb 21

Q3. Maths, careers learning and Students

How do your students view maths and careers?

If you asked them to list careers that used maths – what would they say?

[#mathscpdchat](#) [#CoreMathsChat](#)



... prompted two conversations, and one single reply.

The following conversation included a reference to a previous joint [#mathsCPDchat](#), [#CoreMathsChat](#) ...



James Maloney @JamesWMaloney · Feb 21

Replying to @GirlsCount_2

I think they want to cherry pick topics. 'I'm going to use that and that. Never use that.' I'd hope I've banged on enough about where they're going to use maths that they would produce quite a big list that would include less common ones. [#CoreMathsChat](#) [#MathsCPDChat](#)



James Maloney @JamesWMaloney · Feb 21

Replying to @JamesWMaloney and @GirlsCount_2

They'd say accountant, actuary (cos I mention this most lessons atm for some reason! 😞😞), engineering, researcher etc. But also farmer, sports coach, zoo keeper, conservationist. [#CoreMathsChat](#) [#MathsCPDChat](#)



Tom Rainbow @CoreMathsTom · Feb 21

Replying to @JamesWMaloney and @GirlsCount_2

Ha, snap! [#coremathschat](#) [#mathscpdchat](#)



Rachel.Beddoes @GirlsCount_2 · Feb 21

Replying to @JamesWMaloney

Some great responses to @El_Timbre 'How can we encourage our students to pursue a career in climate science' in a previous [#MathsCPDChat](#) [#CoreMathsChat](#) You can catch up on that here ncetm.org.uk/news-features/... (18/10)



ncetm.org.uk
Maths CPD chat
NCETM Twitter chats every Tuesday from 7pm to 8pm

... some relevant extracts from that discussion are ...

#mathscpdchat (On this occasion with #CoreMathsChat) 18 October 2022

'Maths and Climate Change': a thought-provoking hour on the relevance of maths to climate change.

Hosted by [Emma Bell](#)

Emma's QUESTION 3 ...



Em Bell @El_Timbre · 16h

Changing direction slightly before coming back to resources...

Q3 - Maths, Climate Change and Careers

How can we encourage our students to pursue a career in climate science?

[#MathsCPDChat](#) [#CoreMathsChat](#)



... prompted thoughts about careers in which good mathematical understanding is 'pretty essential':



Alistair Bissell @comparagrams · 16h

...

Replying to @EI_Timbre

A good understanding of maths is important for a career in climate science, as it is for many careers. Also important to be aware there are many other careers potentially relating to climate - not exclusive to STEM subjects
[#MathsCPDChat](#) [#CoreMathsChat](#)



Em Bell @EI_Timbre · 16h

...

Replying to @comparagrams

Do you think that strong mathematicians veer towards other areas rather than climate science or meteorology? [#MathsCPDChat](#) [#CoreMathsChat](#)



Alistair Bissell @comparagrams · 16h

...

Replying to @EI_Timbre

Strong mathematicians can turn their hands to anything! Politics, social sciences, poetry, music! All of these could help to tackle climate issues. But maths is pretty essential for climate science and meteorology.
[#MathsCPDChat](#) [#CoreMathsChat](#)

There were other thoughts about supporting students with their career plans, such as these suggestions ...



Jude Mortimer @Littlemissmath5 · 16h

...

Replying to @EI_Timbre

Let them talk to people currently doing it. Maybe get ambassadors from [@STEMLearningUK](#)
Also of course this amsp.org.uk/resource/Estim...
[#mathscpdchat](#) [#coremathschat](#)



Em Bell @EI_Timbre · 16h

...

Replying to @Littlemissmath5 and @STEMLearningUK

Agree Jude. Hearing directly is so powerful [#MathsCPDChat](#)
[#CoreMathsChat](#)



James Maloney @JamesWMaloney · 16h

...

Replying to @EI_Timbre

I've tended to highlight to my students how climate change will affect their career if they continue in their vocational field. So, Animal Management students how CC will affect conservation, habitats, etc. Agric how it will change harvests, crops etc [#CoreMathsChat](#) [#MathsCPDChat](#)



Em Bell @EI_Timbre · 16h


...

Replying to @JamesWMaloney

That's a great approach James! [#MathsCPDChat](#) [#CoreMathsChat](#) Linking to vocation is vital across all of FE maths isn't it?


Cat van Saarloos @CoreMathsCat · 17h
Replying to @El_Timbre
. @Green_Careers is coming up! Lots of great ideas and resources
[#mathscpdchat](#)

Cat van Saarloos @CoreMathsCat · 17h
Replying to @CoreMathsCat @El_Timbre and @Green_Careers
Would be a great time to show students these: youtu.be/TWGgqmQAfvM
[#mathscpdchat](#)



youtube.com
An interview with a digital tech engineer about ho...
This video is part of our 'Where maths meets... the world of work!' series, which you can access on th...

Cat van Saarloos @CoreMathsCat · 16h
Replying to @CoreMathsCat @El_Timbre and @Green_Careers
And the brilliant @TreacherousBuzz:
youtu.be/HZND8Fas8Uw
[#mathscpdchat](#)



youtube.com
An interview with a Climate Scientist about how m...
This video is part of our 'Where maths meets... the world of work!' series, which you can access on th...

... and in this conversation the AMSP *Where maths meets the world of work* videos were again mentioned and exemplified:

MrsD @MrsDMaths · Feb 21
Replying to @GirlsCount_2
Maths teacher! [#CoreMathsChat](#) [#mathscpdchat](#)

Rachel.Beddoes @GirlsCount_2 · Feb 21
Replying to @MrsDMaths
Not sure why I liked that tweet - should have been an 😞 [#mathscpdchat](#)
[#CoreMathsChat](#)



Tom Rainbow @CoreMathsTom · Feb 21

Replying to @GirlsCount_2 and @MrsDMaths

Accountant.

Actuary...although they wouldn't necessarily know what an actuary does.

Engineer perhaps.

End of list. #coremathschat #mathscpdchat



Rachel Beddoes @GirlsCount_2 · Feb 21

Replying to @CoreMathsTom and @MrsDMaths

and if you want to know what an actuary does [youtube.com/watch?v=YHArjE...](https://www.youtube.com/watch?v=YHArjE...)

part of [ams.org.uk/where-maths-me...](https://www.ams.org.uk/where-maths-me...) #mathscpdchat

#CoreMathsChat



[ams.org.uk](https://www.ams.org.uk)

Where maths meets... the world of work! - AMSP

My pathway into...

ACTUARIAL SCIENCE

Mudi Ugono



"When I was choosing my A levels, my brother said "Trust me, doing Maths will keep your doors open" and he was right!"

A levels:

- Maths
- Economics
- Psychology

University:

- Economics, Maths and Statistics, Queen Mary University of London



← Watch my video



Tom Rainbow @CoreMathsTom · Feb 21

Replying to @GirlsCount_2 and @MrsDMaths

Love these vids. #coremathschat #mathscpdchat

This was the 'single' reply to Q3:

How do your students view maths and careers?
If you asked them to list careers that used maths – what would they say?



MrsD @MrsDMaths · Feb 21

...

Replying to @GirlsCount_2

Generally the fairly obvious things - accountant, finance, computer programming etc. I love some of the examples in the World of Work videos and the postcards because they are not the obvious ones
[#CoreMathsChat](#) [#mathscpdchat](#)

The host's fourth main question ...



Rachel.Beddoes @GirlsCount_2 · Feb 21

...

Q4. Maths, careers learning and Resources: what fave sources/resources can you share that might help a maths teacher embed careers in their lessons? [#mathscpdchat](#) [#CoreMathsChat](#)



prompted three threads of replies, which are not, on the whole, 'conversations' because contributors were mainly mentioning, and giving links to, useful resources.

This was the longest thread ...



MrsD @MrsDMaths · Feb 21

...

Replying to @GirlsCount_2

For sure the @Advanced_Maths World of Work videos #mathscpdchat #coremathschat



amsp.org.uk

Where maths meets... the world of work! - AMSP



Mark Wilson @lazymarky · Feb 21

...

Replying to @MrsDMaths @PardoeMary and 2 others

This is a really interesting resource. I've shared it with pupils but yet to have any discussions on it.



Rachel Beddoes @GirlsCount_2 · Feb 21

...

Replying to @lazymarky @MrsDMaths and 2 others

Let us know how you get on!!! careers@amsp.org.uk #MathsCPDChat #CoreMathsChat



MrsD @MrsDMaths · Feb 21

...

Replying to @MrsDMaths @GirlsCount_2 and @Advanced_Maths

Maths careers is also great (and probably mentioned already) mathscareers.org.uk #mathscpdchat #coremathschat



mathscareers.org.uk

Home

Maths Careers provides a range of resources, information and signposting to help those workin...



Rachel Beddoes @GirlsCount_2 · Feb 21

...

mathigon.org/applications @MathigonOrg is a brilliant easy to use source of applications of maths #NCW2023 #mathscpdchat #CoreMathsChat



MrsD @MrsDMaths · Feb 21

...

Replying to @GirlsCount_2

Also things like getting role models in from somewhere like @maths4girlsuk #mathscpdchat #coremathschat



Rachel.Beddoes @GirlsCount_2 · Feb 21

...

Replying to @MrsDMaths and @maths4girlsuk

OOh glad you've mentioned that! Has anyone tried inviting role models into their classrooms? #MathsCPDChat #CoreMathsChat Can recommend m4g.founders4schools.org.uk @maths4girlsuk The amazing @SophieBays is one of their role models!



m4g.founders4schools.org.uk
Welcome to Founders4Schools
Edu-tech charity that helps educators improve the life chances of young people by connecting them...

... this was another thread ...



James Maloney @JamesWMaloney · Feb 21

...

Replying to @GirlsCount_2

I need to use mathscareers.org.uk more, and share it with my dept. Will be very useful for our GCSE students. #MathsCPDChat #CoreMathsChat



mathscareers.org.uk
Home
Maths Careers provides a range of resources, information and signposting to help those workin...



Rachel Beddoes @GirlsCount_2 · Feb 21



Replying to @JamesWMaloney

Your students (and all students) would love this

Some great new short videos showcasing careers in the beauty industry

britishbeautycouncil.com/future-talent-... @bbeautycouncil

#MathsCPDChat #CoreMathsChat



britishbeautycouncil.com

FUTURE TALENT PROGRAMME : The British Beauty Council

The British Beauty Council is dedicated to ensuring clear and diverse beauty career pathways are promoted to young people. Find out ...



Christine Watson @clw9999 · Feb 21



Replying to @GirlsCount_2

Mathscareers of course mathscareers.org.uk

#mathscpdchat #CoreMathsChat



mathscareers.org.uk

Home

Maths Careers provides a range of resources, information and signposting to help those workin...



Christine Watson @clw9999 · Feb 21



Replying to @GirlsCount_2

This one is new to me, girlsschools.org/garc-2/
Haven't looked properly at the promoting careers side
[#coremathschat](#) [#coremathscpd](#)



Mary Pardoe @PardoeMary · Feb 21



Replying to @GirlsCount_2

Plus!
plus.maths.org/content/
[#mathscpdchat](#) [#CoreMathsChat](#)





Tom Rainbow @CoreMathsTom · Feb 21



Replying to @GirlsCount_2

I'm not being sycophantic...these would definitely be my go to:
[amsp.org.uk/where-maths-me...](https://amsp.org.uk/where-maths-meets-the-world-of-work/) #coremathschat #coremathscpd



amsp.org.uk
Where maths meets... the world of work! - AMSP

... and the host replied twice to her own fourth question:

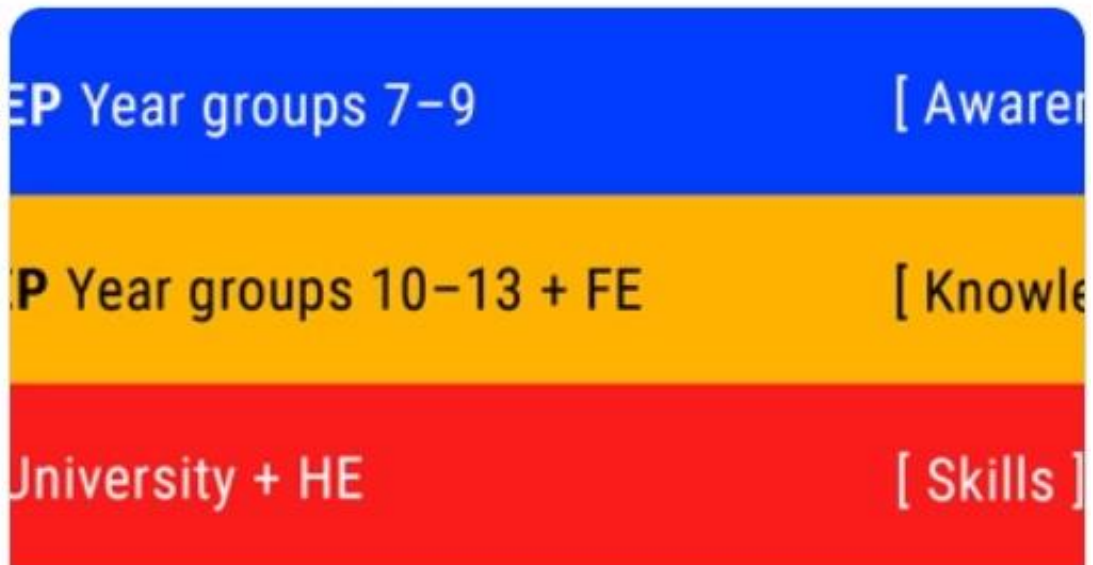


Rachel Beddoes @GirlsCount_2 · Feb 21



Replying to @GirlsCount_2

A few non AMSP ones from me... digdata.online from @DigDataUK
MathsCPDChat #CoreMathsChat



EP Year groups 7-9	[Awareness]
EP Year groups 10-13 + FE	[Knowledge]
University + HE	[Skills]



digdata.online
Home - Digdata - a Data Inspiration Group programme
We are the Data Inspiration Group, a dedicated team connecting young people, parents and educators with leading data industry ...



Rachel.Beddoes @GirlsCount_2 · Feb 21



links to Maths - Carers in the Curriculum case studies from @PwC_UK_Careers With thanks to @HollieCrompton for telling me about them pwc.to/3lLyenK MathsCPDChat #CoreMathsChat



pwc.co.uk
A Postcard from PwC: Maths
How studying Maths has helped me at PwC

Rachel's last main question ...



Rachel.Beddoes @GirlsCount_2 · Feb 21



Q5. Maths, careers learning and Hope: by linking Careers learning and Maths in your future lessons, what do you hope for? #mathscpdchat #CoreMathsChat



... prompted the following replies ...



James Maloney @JamesWMaloney · Feb 21

...

Replying to @GirlsCount_2

Higher engagement, deeper understanding, and better prepared students. #CoreMathsChat #MathsCPDChat



MrsD @MrsDMaths · Feb 21

...

Replying to @GirlsCount_2

To open the eyes of young people to the opportunities offered by maths. They chances they can take and the places they can go. So corny but ultimately improving lives - of the students and the people they meet in their future careers #mathscpdchat #coremathschat



Christine Watson @clw9999 · Feb 21

...

Replying to @GirlsCount_2

Motivation. Awareness of the utility and ubiquity of maths, of opportunities. Aspiration. Transferability of skills. Recognising maths outside my classroom without a huge arrow pointing at it

And to preempt THAT question

#coremathschat #coremathscpd



Rachel Beddoes @GirlsCount_2 · Feb 21

...

Replying to @clw9999

Great quote from @shawmaths “Many students (and adults) ask “why do I need to know this?” about a variety of topics in maths. You cannot ask that in Core Maths.” amsp.org.uk/teachers/core-... #MathsCPDChat #CoreMathsChat



amsp.org.uk

Core Maths Advocates - AMSP

... and, before she closed the chat, the host shared this ...



Rachel.Beddoes @GirlsCount_2 · Feb 21



Just sharing my fave slide full of #careers that use #maths before time runs out on us #mathscpdchat #CoreMathsChat



... and this ...



Rachel.Beddoes @GirlsCount_2 · Feb 21



You can still join our Which Career? online Panel event next Tuesday 10 March at 10 am. Details of that and all upcoming sessions can be found amsp.org.uk/event/8095/ #MathsCPDChat #CoreMathsChat

	<p>amsp.org.uk Event - AMSP</p>
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... and this was her closing message:

Mathematics
A: The best
B: A
C: B

Rachel.Beddoes @GirlsCount_2 · Feb 21

...

Thanks everyone for being here - lots of great ideas! Have a great rest of the evening and if you want to get in touch email careers@amsp.org.uk anytime.

Final link to our careers collection



amsp.org.uk

Linking curriculum learning to careers - AMSP



James Maloney @JamesWMaloney · Feb 21

...

Replying to @GirlsCount_2

Thanks for hosting Rachel! Lots of ideas to use and share.

[#CoreMathsChat](#) [#MathsCPDChat](#)